

ALMANAC XLII TRANSITS VISIBLE FROM MOON IN CE

The almanac XLII contains a list of transits visible from Moon from the 1st millennium CE to the 125th millennium CE.

During the period of 250 000 years, the total number of transits visible from Moon is 43 427 transits visible from Moon (40 443 transits of Mercury, 2 984 transits of Venus).

1ST MILLENNIUM CE

This is a list of transits visible from Moon in the 1st millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	4-04-15 04:19 J		1722623.61	1722623.68	1722623.76	0.2636	0.2298	
Mercury	7-10-17 07:40 J		1723903.74	1723903.82	1723903.90	0.2693	0.1721	
Mercury	17-04-18 12:43 J		1727374.88	1727375.03	1727375.18	0.2637	0.0875	
Mercury	20-10-19 00:43 J		1728654.42	1728654.53	1728654.63	0.2692	0.0543	
Mercury	33-10-21 17:45 J		1733405.14	1733405.24	1733405.34	0.2698	0.0858	
Mercury	46-10-24 11:02 J		1738155.90	1738155.96	1738156.03	0.2703	0.2179	
Mercury	50-04-16 11:02 J		1739425.83	1739425.96	1739426.09	0.2636	0.1537	
Mercury	53-10-17 12:14 J		1740705.92	1740706.01	1740706.10	0.2692	0.1573	
Venus	60-05-23 01:12 J		1743115.40	1743115.55	1743115.70	0.2624	0.0550	
Mercury	63-04-19 19:55 J		1744177.19	1744177.33	1744177.47	0.2638	0.1302	
Mercury	66-10-20 05:16 J		1745456.62	1745456.72	1745456.83	0.2693	0.0178	
Mercury	79-10-22 22:33 J		1750207.34	1750207.44	1750207.54	0.2699	0.1043	
Mercury	86-10-16 00:00 J		1752757.47	1752757.50	1752757.52	0.2694	0.2594	
Mercury	92-10-24 16:04 J		1754958.13	1754958.17	1754958.21	0.2705	0.2475	
Mercury	96-04-16 18:00 J		1756228.11	1756228.25	1756228.39	0.2636	0.1134	
Mercury	99-10-18 17:02 J		1757508.11	1757508.21	1757508.30	0.2691	0.1208	
Mercury	109-04-20 02:52 J		1760979.52	1760979.62	1760979.71	0.2638	0.2101	
Mercury	112-10-20 10:04 J		1762258.81	1762258.92	1762259.03	0.2694	0.0042	
Mercury	125-10-23 03:07 J		1767009.54	1767009.63	1767009.72	0.2700	0.1426	
Mercury	132-10-16 04:33 J		1769559.64	1769559.69	1769559.75	0.2693	0.2274	
Mercury	142-04-18 00:57 J		1773030.38	1773030.54	1773030.70	0.2637	0.0408	
Mercury	145-10-18 21:50 J		1774310.30	1774310.41	1774310.51	0.2691	0.1020	
Mercury	155-04-21 09:50 J		1777781.86	1777781.91	1777781.96	0.2638	0.2484	
Mercury	158-10-21 14:38 J		1779061.00	1779061.11	1779061.22	0.2695	0.0360	
Mercury	171-10-24 07:55 J		1783811.75	1783811.83	1783811.92	0.2700	0.1590	
Mercury	178-10-17 09:21 J		1786361.82	1786361.89	1786361.96	0.2691	0.2006	

Venus	181-11-23 03:21 J	1787494.49	1787494.64	1787494.78	0.2718	0.0681
Mercury	188-04-18 07:55 J	1789832.67	1789832.83	1789832.99	0.2638	0.0123
Mercury	191-10-20 02:24 J	1791112.50	1791112.60	1791112.71	0.2692	0.0680
Mercury	204-10-21 19:26 J	1795863.20	1795863.31	1795863.41	0.2696	0.0539
Mercury	217-10-24 12:43 J	1800613.96	1800614.03	1800614.10	0.2702	0.1994
Mercury	221-04-16 06:14 J	1801883.68	1801883.76	1801883.85	0.2636	0.2196
Mercury	224-10-17 14:09 J	1803164.00	1803164.09	1803164.17	0.2691	0.1775
Mercury	234-04-19 14:38 J	1806634.96	1806635.11	1806635.27	0.2639	0.0696
Mercury	237-10-20 06:57 J	1807914.69	1807914.79	1807914.90	0.2693	0.0456
Mercury	250-10-23 00:14 J	1812665.41	1812665.51	1812665.61	0.2696	0.0899
Mercury	263-10-25 17:31 J	1817416.17	1817416.23	1817416.30	0.2704	0.2171
Mercury	267-04-17 13:26 J	1818685.94	1818686.06	1818686.17	0.2637	0.1765
Mercury	270-10-18 18:43 J	1819966.19	1819966.28	1819966.37	0.2691	0.1430
Mercury	280-04-19 21:35 J	1823437.26	1823437.40	1823437.54	0.2638	0.1320
Mercury	283-10-21 11:45 J	1824716.88	1824716.99	1824717.10	0.2693	0.0213
Mercury	296-10-23 05:02 J	1829467.61	1829467.71	1829467.80	0.2697	0.1124
Venus	303-05-24 14:38 J	1831871.97	1831872.11	1831872.25	0.2620	0.1180
Mercury	303-10-17 06:14 J	1832017.72	1832017.76	1832017.80	0.2692	0.2464
Mercury	309-10-25 22:19 J	1834218.40	1834218.43	1834218.46	0.2705	0.2544
Mercury	313-04-17 20:09 J	1835488.19	1835488.34	1835488.48	0.2638	0.1000
Mercury	316-10-18 23:31 J	1836768.38	1836768.48	1836768.57	0.2691	0.1244
Mercury	326-04-21 04:33 J	1840239.58	1840239.69	1840239.81	0.2638	0.1856
Mercury	329-10-21 16:19 J	1841519.08	1841519.18	1841519.29	0.2693	0.0164
Mercury	342-10-24 09:35 J	1846269.81	1846269.90	1846270.00	0.2699	0.1409
Mercury	349-10-17 11:02 J	1848819.91	1848819.96	1848820.01	0.2691	0.2305
Mercury	359-04-19 02:52 J	1852290.46	1852290.62	1852290.77	0.2638	0.0656
Mercury	362-10-20 04:04 J	1853570.57	1853570.67	1853570.77	0.2691	0.0888
Mercury	372-04-21 11:45 J	1857041.97	1857041.99	1857042.01	0.2639	0.2610
Mercury	375-10-22 21:07 J	1858321.28	1858321.38	1858321.49	0.2693	0.0335
Mercury	388-10-24 14:24 J	1863072.02	1863072.10	1863072.18	0.2701	0.1721

Mercury	395-10-18 15:50 J	1865622.08	1865622.16	1865622.23	0.2692	0.1918
Mercury	405-04-19 09:35 J	1869092.74	1869092.90	1869093.06	0.2638	0.0139
Mercury	408-10-20 08:38 J	1870372.76	1870372.86	1870372.97	0.2691	0.0746
Mercury	421-10-23 01:55 J	1875123.48	1875123.58	1875123.68	0.2695	0.0690
Venus	424-11-23 01:12 J	1876250.38	1876250.55	1876250.72	0.2705	0.0224
Mercury	434-10-25 19:12 J	1879874.22	1879874.30	1879874.37	0.2701	0.1926
Mercury	438-04-17 08:24 J	1881143.78	1881143.85	1881143.93	0.2638	0.2303
Mercury	441-10-18 20:24 J	1882424.27	1882424.35	1882424.43	0.2691	0.1742
Mercury	451-04-20 16:47 J	1885895.04	1885895.20	1885895.35	0.2639	0.0561
Mercury	454-10-21 13:26 J	1887174.96	1887175.06	1887175.17	0.2691	0.0357
Mercury	467-10-24 06:28 J	1891925.67	1891925.77	1891925.88	0.2696	0.0847
Mercury	480-10-26 00:00 J	1896676.44	1896676.50	1896676.55	0.2701	0.2300
Mercury	484-04-17 15:07 J	1897946.01	1897946.13	1897946.25	0.2637	0.1782
Mercury	487-10-20 01:12 J	1899226.45	1899226.55	1899226.64	0.2690	0.1424
Mercury	497-04-20 23:45 J	1902697.35	1902697.49	1902697.63	0.2640	0.1315
Mercury	500-10-21 18:14 J	1903977.15	1903977.26	1903977.37	0.2691	0.0176
Mercury	513-10-24 11:16 J	1908727.87	1908727.97	1908728.07	0.2697	0.1228
Mercury	520-10-17 12:43 J	1911277.99	1911278.03	1911278.07	0.2693	0.2501
Mercury	526-10-27 04:47 J	1913478.66	1913478.70	1913478.74	0.2703	0.2484
Mercury	530-04-18 22:04 J	1914748.28	1914748.42	1914748.56	0.2638	0.1206
Mercury	533-10-20 05:45 J	1916028.65	1916028.74	1916028.84	0.2690	0.1167
Mercury	543-04-22 06:43 J	1919499.66	1919499.78	1919499.89	0.2640	0.1805
Venus	546-05-24 06:57 J	1920627.63	1920627.79	1920627.95	0.2621	0.0096
Mercury	546-10-22 22:47 J	1920779.35	1920779.45	1920779.56	0.2693	0.0199
Mercury	559-10-25 16:04 J	1925530.08	1925530.17	1925530.26	0.2697	0.1396
Mercury	566-10-18 17:16 J	1928080.16	1928080.22	1928080.29	0.2691	0.2176
Mercury	576-04-19 05:02 J	1931550.55	1931550.71	1931550.86	0.2639	0.0543
Mercury	579-10-21 10:33 J	1932830.84	1932830.94	1932831.04	0.2690	0.0905
Mercury	589-04-22 13:26 J	1936302.00	1936302.06	1936302.12	0.2640	0.2441
Mercury	592-10-23 03:35 J	1937581.54	1937581.65	1937581.76	0.2694	0.0397

Mercury	605-10-25 20:52 J	1942332.29	1942332.37	1942332.45	0.2698	0.1781
Mercury	612-10-18 22:04 J	1944882.35	1944882.42	1944882.49	0.2690	0.1997
Mercury	622-04-20 12:00 J	1948352.84	1948353.00	1948353.16	0.2640	0.0100
Mercury	625-10-21 15:21 J	1949633.03	1949633.14	1949633.24	0.2690	0.0593
Mercury	638-10-24 08:09 J	1954383.74	1954383.84	1954383.95	0.2694	0.0662
Mercury	651-10-27 01:40 J	1959134.50	1959134.57	1959134.64	0.2700	0.1996
Mercury	655-04-18 10:33 J	1960403.89	1960403.94	1960403.99	0.2638	0.2482
Mercury	658-10-20 02:52 J	1961684.53	1961684.62	1961684.71	0.2690	0.1596
Venus	667-11-23 20:09 J	1965006.19	1965006.34	1965006.49	0.2716	0.0347
Mercury	668-04-20 18:43 J	1965155.12	1965155.28	1965155.43	0.2640	0.0675
Mercury	671-10-22 19:55 J	1966435.22	1966435.33	1966435.44	0.2691	0.0405
Mercury	684-10-24 12:57 J	1971185.94	1971186.04	1971186.14	0.2694	0.0971
Mercury	691-10-18 14:09 J	1973736.09	1973736.09	1973736.10	0.2692	0.2689
Mercury	697-10-27 06:28 J	1975936.71	1975936.77	1975936.82	0.2702	0.2300
Mercury	701-04-18 17:16 J	1977206.11	1977206.22	1977206.34	0.2639	0.1723
Mercury	704-10-20 07:40 J	1978486.73	1978486.82	1978486.91	0.2690	0.1441
Mercury	714-04-22 01:26 J	1981957.42	1981957.56	1981957.71	0.2640	0.1053
Mercury	717-10-23 00:28 J	1983237.41	1983237.52	1983237.63	0.2691	0.0092
Mercury	730-10-25 17:45 J	1987988.14	1987988.24	1987988.34	0.2695	0.1192
Mercury	737-10-18 18:57 J	1990538.26	1990538.29	1990538.33	0.2691	0.2482
Mercury	743-10-28 11:16 J	1992738.94	1992738.97	1992738.99	0.2703	0.2598
Mercury	747-04-20 00:00 J	1994008.37	1994008.50	1994008.64	0.2640	0.1321
Mercury	750-10-21 12:14 J	1995288.91	1995289.01	1995289.11	0.2690	0.1068
Mercury	760-04-22 08:38 J	1998759.75	1998759.86	1998759.97	0.2640	0.1864
Mercury	763-10-24 05:16 J	2000039.61	2000039.72	2000039.83	0.2691	0.0117
Mercury	776-10-25 22:33 J	2004790.35	2004790.44	2004790.53	0.2697	0.1555
Mercury	783-10-19 23:45 J	2007340.43	2007340.49	2007340.56	0.2690	0.2144
Venus	789-05-24 20:38 J	2009384.22	2009384.36	2009384.51	0.2626	0.1064
Mercury	793-04-20 06:43 J	2010810.63	2010810.78	2010810.94	0.2640	0.0630
Mercury	796-10-21 17:02 J	2012091.10	2012091.21	2012091.31	0.2690	0.0898

Venus	797-05-22 14:38 J	2012304.01	2012304.11	2012304.21	0.2621	0.1997
Mercury	806-04-23 15:50 J	2015562.08	2015562.16	2015562.23	0.2641	0.2300
Mercury	809-10-24 10:04 J	2016841.81	2016841.92	2016842.03	0.2692	0.0512
Mercury	822-10-27 03:21 J	2021592.55	2021592.64	2021592.72	0.2699	0.1713
Mercury	829-10-20 04:33 J	2024142.62	2024142.69	2024142.77	0.2691	0.1891
Mercury	839-04-21 13:40 J	2027612.91	2027613.07	2027613.23	0.2640	0.0132
Mercury	842-10-22 21:35 J	2028893.29	2028893.40	2028893.51	0.2689	0.0563
Mercury	855-10-25 14:52 J	2033644.01	2033644.12	2033644.22	0.2693	0.0685
Mercury	868-10-27 07:55 J	2038394.77	2038394.83	2038394.90	0.2699	0.2119
Mercury	872-04-18 12:28 J	2039663.96	2039664.02	2039664.09	0.2639	0.2371
Mercury	875-10-21 09:21 J	2040944.80	2040944.89	2040944.97	0.2690	0.1631
Mercury	885-04-21 20:52 J	2044415.21	2044415.37	2044415.52	0.2641	0.0507
Mercury	888-10-23 02:24 J	2045695.49	2045695.60	2045695.71	0.2689	0.0320
Mercury	901-10-25 19:26 J	2050446.21	2050446.31	2050446.41	0.2695	0.1021
Venus	910-11-24 02:52 J	2053762.46	2053762.62	2053762.79	0.2707	0.0052
Mercury	914-10-28 12:43 J	2055196.98	2055197.03	2055197.09	0.2699	0.2283
Mercury	918-04-19 19:26 J	2056466.20	2056466.31	2056466.41	0.2639	0.1979
Mercury	921-10-21 13:55 J	2057746.99	2057747.08	2057747.18	0.2689	0.1315
Mercury	931-04-23 03:50 J	2061217.52	2061217.66	2061217.80	0.2642	0.1174
Mercury	934-10-24 07:12 J	2062497.69	2062497.80	2062497.91	0.2690	0.0086
Mercury	947-10-27 00:14 J	2067248.41	2067248.51	2067248.60	0.2695	0.1248
Mercury	954-10-20 01:26 J	2069798.51	2069798.56	2069798.61	0.2691	0.2343
Mercury	960-10-28 17:45 J	2071999.23	2071999.24	2071999.25	0.2701	0.2679
Mercury	964-04-20 02:09 J	2073268.45	2073268.59	2073268.73	0.2639	0.1205
Mercury	967-10-22 18:43 J	2074549.18	2074549.28	2074549.38	0.2688	0.1129
Mercury	977-04-23 10:33 J	2078019.82	2078019.94	2078020.07	0.2642	0.1635
Mercury	980-10-24 11:45 J	2079299.88	2079299.99	2079300.10	0.2691	0.0253
Mercury	993-10-27 05:02 J	2084050.62	2084050.71	2084050.79	0.2695	0.1549
Mercury	1000-10-20 06:14 J	2086600.70	2086600.76	2086600.82	0.2690	0.2188

2ND MILLENNIUM CE

This is a list of transits visible from Moon in the 2nd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	1010-04-21 09:07 J		2090070.73	2090070.88	2090071.03	0.2641	0.0818	
Mercury	1013-10-22 23:31 J		2091351.37	2091351.48	2091351.58	0.2688	0.0743	
Mercury	1023-04-24 17:31 J		2094822.16	2094822.23	2094822.30	0.2642	0.2374	
Mercury	1026-10-25 16:19 J		2096102.08	2096102.18	2096102.29	0.2691	0.0453	
Venus	1032-05-24 15:50 J		2098140.01	2098140.16	2098140.32	0.2618	0.1014	
Mercury	1039-10-28 09:35 J		2100852.83	2100852.90	2100852.98	0.2696	0.1837	
Mercury	1046-10-21 10:48 J		2103402.87	2103402.95	2103403.03	0.2689	0.1807	
Mercury	1056-04-21 16:04 J		2106873.01	2106873.17	2106873.32	0.2642	0.0079	
Mercury	1059-10-24 04:04 J		2108153.57	2108153.67	2108153.78	0.2689	0.0591	
Mercury	1072-10-25 21:07 J		2112904.28	2112904.38	2112904.48	0.2692	0.0818	
Mercury	1085-10-28 14:24 J		2117655.04	2117655.10	2117655.17	0.2698	0.2074	
Mercury	1089-04-19 14:52 J		2118924.06	2118924.12	2118924.17	0.2640	0.2474	
Mercury	1092-10-21 15:35 J		2120205.07	2120205.15	2120205.24	0.2688	0.1617	
Mercury	1102-04-22 22:33 J		2123675.29	2123675.44	2123675.60	0.2642	0.0346	
Mercury	1105-10-24 08:52 J		2124955.76	2124955.87	2124955.97	0.2689	0.0248	
Mercury	1118-10-27 01:55 J		2129706.48	2129706.58	2129706.68	0.2692	0.0980	
Mercury	1125-10-20 03:07 J		2132256.61	2132256.63	2132256.64	0.2690	0.2639	
Mercury	1131-10-29 19:11 J		2134457.26	2134457.30	2134457.35	0.2700	0.2439	
Mercury	1135-04-20 21:35 J		2135726.29	2135726.40	2135726.51	0.2641	0.1917	
Mercury	1138-10-22 20:24 J		2137007.26	2137007.35	2137007.45	0.2688	0.1261	

Mercury	1148-04-23 05:31 J	2140477.58	2140477.73	2140477.87	0.2642	0.1082
Mercury	1151-10-25 13:26 J	2141757.95	2141758.06	2141758.17	0.2689	0.0054
Venus	1153-11-23 15:07 J	2142518.01	2142518.13	2142518.25	0.2711	0.1724
Mercury	1164-10-27 06:43 J	2146508.68	2146508.78	2146508.87	0.2694	0.1377
Mercury	1171-10-21 07:55 J	2149058.78	2149058.83	2149058.88	0.2689	0.2391
Mercury	1177-10-30 00:00 J	2151259.48	2151259.50	2151259.53	0.2701	0.2605
Mercury	1181-04-21 04:19 J	2152528.55	2152528.68	2152528.81	0.2642	0.1412
Mercury	1184-10-23 01:11 J	2153809.45	2153809.55	2153809.65	0.2688	0.1033
Mercury	1194-04-24 12:43 J	2157279.90	2157280.03	2157280.15	0.2642	0.1597
Mercury	1197-10-25 18:14 J	2158560.15	2158560.26	2158560.37	0.2689	0.0311
Mercury	1210-10-28 11:16 J	2163310.89	2163310.97	2163311.06	0.2696	0.1542
Mercury	1217-10-21 12:43 J	2165860.96	2165861.03	2165861.10	0.2689	0.2038
Mercury	1227-04-22 11:02 J	2169330.81	2169330.96	2169331.11	0.2641	0.0748
Mercury	1230-10-24 05:45 J	2170611.64	2170611.74	2170611.85	0.2688	0.0780
Mercury	1240-04-24 19:40 J	2174082.24	2174082.32	2174082.40	0.2643	0.2247
Mercury	1243-10-26 23:02 J	2175362.35	2175362.46	2175362.56	0.2690	0.0533
Mercury	1256-10-28 16:04 J	2180113.09	2180113.17	2180113.24	0.2697	0.1907
Mercury	1263-10-22 17:31 J	2182663.15	2182663.23	2182663.30	0.2689	0.1846
Mercury	1273-04-22 17:45 J	2186133.09	2186133.24	2186133.40	0.2641	0.0303
Venus	1275-05-25 23:45 J	2186896.36	2186896.49	2186896.63	0.2630	0.1143
Mercury	1276-10-24 10:33 J	2187413.83	2187413.94	2187414.04	0.2687	0.0468
Venus	1283-05-23 20:09 J	2189816.21	2189816.34	2189816.48	0.2628	0.1317
Mercury	1289-10-27 03:35 J	2192164.55	2192164.65	2192164.75	0.2691	0.0813
Mercury	1302-10-29 20:52 J	2196915.30	2196915.37	2196915.43	0.2697	0.2111
Mercury	1309-10-22 22:04 J	2199465.33	2199465.42	2199465.51	0.2688	0.1478
Mercury	1319-04-24 00:57 J	2202935.38	2202935.54	2202935.69	0.2642	0.0479
Mercury	1322-10-25 15:21 J	2204216.03	2204216.14	2204216.24	0.2687	0.0276
Mercury	1335-10-28 08:09 J	2208966.74	2208966.84	2208966.94	0.2693	0.1110
Mercury	1342-10-21 09:35 J	2211516.86	2211516.90	2211516.93	0.2691	0.2546
Mercury	1348-10-30 01:40 J	2213717.53	2213717.57	2213717.61	0.2697	0.2448

Mercury	1352-04-20 23:31 J	2214986.37	2214986.48	2214986.59	0.2641	0.1915
Mercury	1355-10-24 02:52 J	2216267.52	2216267.62	2216267.71	0.2687	0.1323
Mercury	1365-04-24 07:55 J	2219737.68	2219737.83	2219737.98	0.2643	0.0879
Mercury	1368-10-25 19:55 J	2221018.22	2221018.33	2221018.44	0.2688	0.0112
Mercury	1381-10-28 12:57 J	2225768.95	2225769.04	2225769.14	0.2693	0.1311
Mercury	1388-10-21 14:09 J	2228319.04	2228319.09	2228319.14	0.2690	0.2365
Venus	1396-11-24 01:26 J	2231274.40	2231274.56	2231274.71	0.2710	0.0153
Mercury	1398-04-22 06:28 J	2231788.64	2231788.77	2231788.90	0.2641	0.1504
Mercury	1401-10-24 07:26 J	2233069.71	2233069.81	2233069.92	0.2687	0.0930
Mercury	1411-04-25 14:38 J	2236539.99	2236540.11	2236540.23	0.2644	0.1664
Mercury	1414-10-27 00:43 J	2237820.42	2237820.53	2237820.63	0.2689	0.0286
Mercury	1427-10-29 17:45 J	2242571.16	2242571.24	2242571.32	0.2693	0.1685
Mercury	1434-10-22 18:57 J	2245121.22	2245121.29	2245121.36	0.2689	0.2021
Mercury	1444-04-22 13:11 J	2248590.90	2248591.05	2248591.20	0.2643	0.0817
Mercury	1447-10-25 12:14 J	2249871.91	2249872.01	2249872.12	0.2687	0.0755
Mercury	1457-04-25 21:21 J	2253342.30	2253342.39	2253342.49	0.2643	0.2046
Mercury	1460-10-27 05:16 J	2254622.61	2254622.72	2254622.82	0.2690	0.0640
Mercury	1473-10-29 22:33 J	2259373.36	2259373.44	2259373.52	0.2694	0.1863
Mercury	1480-10-22 23:45 J	2261923.41	2261923.49	2261923.57	0.2687	0.1763
Mercury	1490-04-23 20:09 J	2265393.18	2265393.34	2265393.49	0.2644	0.0284
Mercury	1493-10-25 17:02 J	2266674.10	2266674.21	2266674.32	0.2687	0.0409
Mercury	1506-10-28 10:04 J	2271424.81	2271424.92	2271425.02	0.2690	0.0808
Venus	1518-05-26 03:21 J	2275652.50	2275652.64	2275652.78	0.2618	0.1470
Mercury	1519-10-31 03:21 J	2276175.58	2276175.64	2276175.70	0.2696	0.2259
Mercury	1523-04-21 19:11 J	2277444.26	2277444.30	2277444.34	0.2642	0.2539
Venus	1526-05-23 16:19 J	2278572.12	2278572.18	2278572.24	0.2620	0.2426
Mercury	1526-10-24 04:33 J	2278725.60	2278725.69	2278725.78	0.2687	0.1492
Mercury	1536-04-24 02:52 J	2282195.46	2282195.62	2282195.77	0.2644	0.0293
Mercury	1539-10-26 21:35 J	2283476.29	2283476.40	2283476.51	0.2687	0.0186
Mercury	1552-10-28 14:52 J	2288227.02	2288227.12	2288227.21	0.2690	0.1189

Mercury	1559-10-22 15:50 J	2290777.14	2290777.16	2290777.18	0.2689	0.2623
Mercury	1565-10-31 08:09 J	2292977.79	2292977.84	2292977.88	0.2698	0.2421
Mercury	1569-04-22 01:55 J	2294246.49	2294246.58	2294246.67	0.2643	0.2151
Mercury	1572-10-24 09:21 J	2295527.79	2295527.89	2295527.98	0.2687	0.1178
Mercury	1582-04-25 09:35 J	2298997.76	2298997.90	2298998.05	0.2643	0.0920
Mercury	1585-11-06 02:09 G	2300278.49	2300278.59	2300278.70	0.2687	0.0136
Mercury	1598-11-08 19:26 G	2305029.22	2305029.31	2305029.41	0.2692	0.1390
Mercury	1605-11-01 20:38 G	2307579.30	2307579.36	2307579.42	0.2688	0.2215
Mercury	1615-05-03 08:24 G	2311048.72	2311048.85	2311048.99	0.2643	0.1394
Mercury	1618-11-04 13:55 G	2312329.98	2312330.08	2312330.18	0.2687	0.0975
Mercury	1628-05-05 16:48 G	2315800.07	2315800.20	2315800.33	0.2644	0.1435
Mercury	1631-11-07 06:57 G	2317080.68	2317080.79	2317080.90	0.2687	0.0397
Venus	1631-12-07 03:21 G	2317110.55	2317110.64	2317110.73	0.2701	0.2295
Venus	1639-12-04 12:43 G	2320029.96	2320030.03	2320030.10	0.2704	0.2419
Mercury	1644-11-09 00:14 G	2321831.43	2321831.51	2321831.59	0.2693	0.1685
Mercury	1651-11-03 01:26 G	2324381.49	2324381.56	2324381.63	0.2688	0.2054
Mercury	1661-05-03 15:21 G	2327850.99	2327851.14	2327851.28	0.2643	0.1037
Mercury	1664-11-04 18:28 G	2329132.17	2329132.27	2329132.38	0.2686	0.0626
Mercury	1674-05-06 23:45 G	2332602.40	2332602.49	2332602.57	0.2644	0.2202
Mercury	1677-11-07 11:45 G	2333882.89	2333882.99	2333883.10	0.2688	0.0614
Mercury	1690-11-10 04:48 G	2338633.63	2338633.70	2338633.78	0.2694	0.1977
Mercury	1697-11-03 06:14 G	2341183.67	2341183.76	2341183.84	0.2688	0.1654
Mercury	1707-05-05 22:04 G	2344653.26	2344653.42	2344653.58	0.2643	0.0251
Mercury	1710-11-06 23:16 G	2345934.36	2345934.47	2345934.58	0.2686	0.0459
Mercury	1720-05-08 06:43 G	2349404.75	2349404.78	2349404.80	0.2645	0.2598
Mercury	1723-11-09 16:33 G	2350685.08	2350685.19	2350685.29	0.2689	0.0965
Mercury	1736-11-11 09:35 G	2355435.84	2355435.90	2355435.96	0.2694	0.2210
Mercury	1743-11-05 10:48 G	2357985.86	2357985.95	2357986.04	0.2687	0.1483
Mercury	1753-05-06 05:02 G	2361455.56	2361455.71	2361455.87	0.2644	0.0184
Mercury	1756-11-07 04:04 G	2362736.56	2362736.67	2362736.78	0.2686	0.0056

Venus	1761-06-06 01:40 G	2364408.45	2364408.57	2364408.70	0.2630	0.1512
Venus	1769-06-03 22:48 G	2367328.33	2367328.45	2367328.57	0.2632	0.1576
Mercury	1769-11-09 21:07 G	2367487.28	2367487.38	2367487.48	0.2691	0.1118
Mercury	1776-11-02 22:19 G	2370037.39	2370037.43	2370037.46	0.2690	0.2529
Mercury	1782-11-12 14:24 G	2372238.07	2372238.10	2372238.13	0.2695	0.2563
Mercury	1786-05-04 03:50 G	2373506.57	2373506.66	2373506.75	0.2642	0.2135
Mercury	1789-11-05 15:35 G	2374788.05	2374788.15	2374788.25	0.2686	0.1142
Mercury	1799-05-07 11:45 G	2378257.85	2378257.99	2378258.14	0.2645	0.0896
Mercury	1802-11-09 08:52 G	2379538.76	2379538.87	2379538.98	0.2687	0.0126
Mercury	1815-11-12 01:55 G	2384289.49	2384289.58	2384289.67	0.2691	0.1518
Mercury	1822-11-05 02:52 G	2386839.57	2386839.62	2386839.68	0.2689	0.2247
Mercury	1832-05-05 10:48 G	2390308.82	2390308.95	2390309.08	0.2644	0.1566
Mercury	1835-11-07 20:24 G	2391590.24	2391590.35	2391590.45	0.2685	0.0902
Mercury	1845-05-08 18:43 G	2395060.15	2395060.28	2395060.41	0.2645	0.1384
Mercury	1848-11-09 13:26 G	2396340.95	2396341.06	2396341.17	0.2687	0.0448
Mercury	1861-11-12 06:43 G	2401091.69	2401091.78	2401091.86	0.2691	0.1675
Mercury	1868-11-05 07:40 G	2403641.75	2403641.82	2403641.90	0.2687	0.1919
Venus	1874-12-09 03:50 G	2405866.62	2405866.66	2405866.70	0.2715	0.2604
Mercury	1878-05-06 17:31 G	2407111.08	2407111.23	2407111.38	0.2645	0.0899
Mercury	1881-11-08 01:11 G	2408392.44	2408392.55	2408392.65	0.2686	0.0607
Venus	1882-12-06 21:07 G	2408786.25	2408786.38	2408786.52	0.2712	0.1195
Mercury	1891-05-10 01:26 G	2411862.47	2411862.56	2411862.66	0.2645	0.2027
Mercury	1894-11-10 18:00 G	2413143.15	2413143.25	2413143.36	0.2687	0.0671
Mercury	1907-11-14 11:16 G	2417893.91	2417893.97	2417894.04	0.2692	0.2065
Mercury	1914-11-07 12:28 G	2420443.94	2420444.02	2420444.10	0.2686	0.1723
Mercury	1924-05-08 00:14 G	2423913.36	2423913.51	2423913.67	0.2645	0.0491
Mercury	1927-11-10 05:45 G	2425194.63	2425194.74	2425194.85	0.2686	0.0321
Mercury	1937-05-11 08:38 G	2428664.86	2428664.86	2428664.86	0.2645	0.2644
Mercury	1940-11-11 22:48 G	2429945.35	2429945.45	2429945.55	0.2688	0.0964
Mercury	1953-11-14 16:04 G	2434696.12	2434696.17	2434696.23	0.2694	0.2266

Mercury	1960-11-07 17:16 G	2437246.13	2437246.22	2437246.32	0.2686	0.1327
Mercury	1970-05-09 06:57 G	2440715.63	2440715.79	2440715.94	0.2645	0.0261
Mercury	1973-11-10 10:19 G	2441996.82	2441996.93	2441997.04	0.2686	0.0153
Mercury	1986-11-13 03:35 G	2446747.55	2446747.65	2446747.75	0.2688	0.1247
Mercury	1993-11-06 04:33 G	2449297.64	2449297.69	2449297.73	0.2688	0.2424
Mercury	1999-11-15 20:52 G	2451498.34	2451498.37	2451498.40	0.2696	0.2584

3RD MILLENNIUM CE

This is a list of transits visible from Moon in the 3rd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	2003-05-07 06:14 G		2452766.66	2452766.76	2452766.85	0.2645	0.2085	
Venus	2004-06-08 13:26 G		2453164.95	2453165.06	2453165.16	0.2624	0.1939	
Mercury	2006-11-08 22:04 G		2454048.32	2454048.42	2454048.52	0.2686	0.1164	
Venus	2012-06-06 03:21 G		2456084.49	2456084.64	2456084.79	0.2621	0.1160	
Mercury	2016-05-09 13:55 G		2457517.93	2457518.08	2457518.23	0.2645	0.0658	
Mercury	2019-11-11 15:07 G		2458799.02	2458799.13	2458799.24	0.2685	0.0244	
Mercury	2032-11-13 08:24 G		2463549.76	2463549.85	2463549.94	0.2690	0.1481	
Mercury	2039-11-07 09:21 G		2466099.83	2466099.89	2466099.95	0.2687	0.2227	
Mercury	2049-05-07 12:43 G		2469568.91	2469569.03	2469569.15	0.2645	0.1698	
Mercury	2052-11-09 02:38 G		2470850.51	2470850.61	2470850.72	0.2686	0.0787	
Mercury	2062-05-10 20:52 G		2474320.24	2474320.37	2474320.50	0.2646	0.1460	
Mercury	2065-11-11 19:55 G		2475601.22	2475601.33	2475601.44	0.2685	0.0416	
Mercury	2078-11-14 12:57 G		2480351.96	2480352.04	2480352.12	0.2691	0.1829	

Mercury	2085-11-07 14:09 G	2482902.01	2482902.09	2482902.17	0.2687	0.1861
Mercury	2095-05-08 19:26 G	2486371.17	2486371.31	2486371.46	0.2645	0.1001
Mercury	2098-11-10 07:26 G	2487652.70	2487652.81	2487652.92	0.2685	0.0616
Mercury	2108-05-12 03:50 G	2491122.55	2491122.66	2491122.77	0.2646	0.1883
Mercury	2111-11-14 00:28 G	2492403.42	2492403.52	2492403.63	0.2686	0.0815
Venus	2117-12-11 05:02 G	2494622.60	2494622.71	2494622.83	0.2700	0.1893
Mercury	2124-11-15 17:45 G	2497154.17	2497154.24	2497154.31	0.2692	0.1999
Venus	2125-12-08 13:11 G	2497541.96	2497542.05	2497542.15	0.2699	0.2224
Mercury	2131-11-09 18:57 G	2499704.20	2499704.29	2499704.38	0.2687	0.1636
Mercury	2141-05-10 02:24 G	2503173.45	2503173.60	2503173.75	0.2645	0.0486
Mercury	2144-11-11 12:14 G	2504454.90	2504455.01	2504455.11	0.2684	0.0283
Mercury	2154-05-13 10:33 G	2507924.93	2507924.94	2507924.96	0.2647	0.2629
Mercury	2157-11-14 05:16 G	2509205.62	2509205.72	2509205.82	0.2687	0.0964
Mercury	2164-11-07 06:14 G	2511755.75	2511755.76	2511755.76	0.2689	0.2676
Mercury	2170-11-16 22:33 G	2513956.39	2513956.44	2513956.49	0.2692	0.2406
Mercury	2177-11-09 23:31 G	2516506.39	2516506.48	2516506.58	0.2685	0.1356
Mercury	2187-05-11 09:21 G	2519975.74	2519975.89	2519976.05	0.2646	0.0121
Mercury	2190-11-12 16:48 G	2521257.09	2521257.20	2521257.31	0.2684	0.0105
Mercury	2203-11-16 09:50 G	2526007.82	2526007.91	2526008.01	0.2688	0.1320
Mercury	2210-11-09 11:02 G	2528557.92	2528557.96	2528558.00	0.2689	0.2479
Mercury	2216-11-18 03:21 G	2530758.61	2530758.64	2530758.67	0.2693	0.2565
Mercury	2220-05-09 08:24 G	2532026.77	2532026.85	2532026.92	0.2644	0.2319
Mercury	2223-11-12 04:19 G	2533308.58	2533308.68	2533308.78	0.2684	0.1038
Mercury	2233-05-12 16:04 G	2536778.02	2536778.17	2536778.32	0.2647	0.0770
Mercury	2236-11-13 21:35 G	2538059.29	2538059.40	2538059.51	0.2685	0.0265
Venus	2247-06-11 06:14 G	2541920.63	2541920.76	2541920.88	0.2627	0.1524
Mercury	2249-11-16 14:38 G	2542810.02	2542810.11	2542810.20	0.2688	0.1525
Venus	2255-06-09 00:57 G	2544840.45	2544840.54	2544840.63	0.2632	0.2083
Mercury	2256-11-09 15:35 G	2545360.09	2545360.15	2545360.22	0.2688	0.2092
Mercury	2266-05-10 15:07 G	2548829.00	2548829.13	2548829.26	0.2646	0.1558

Mercury	2269-11-12 09:07 G	2550110.78	2550110.88	2550110.99	0.2684	0.0828
Mercury	2279-05-13 22:48 G	2553580.31	2553580.45	2553580.59	0.2647	0.1217
Mercury	2282-11-15 02:09 G	2554861.49	2554861.59	2554861.70	0.2685	0.0540
Mercury	2295-11-17 19:26 G	2559612.23	2559612.31	2559612.39	0.2689	0.1860
Mercury	2302-11-11 20:24 G	2562162.28	2562162.35	2562162.43	0.2686	0.1923
Mercury	2312-05-11 21:50 G	2565631.27	2565631.41	2565631.55	0.2647	0.1193
Mercury	2315-11-14 13:55 G	2566912.97	2566913.08	2566913.19	0.2684	0.0458
Mercury	2325-05-15 05:31 G	2570382.63	2570382.73	2570382.84	0.2647	0.1953
Mercury	2328-11-16 06:57 G	2571663.68	2571663.79	2571663.89	0.2686	0.0747
Mercury	2341-11-19 00:14 G	2576414.45	2576414.51	2576414.58	0.2690	0.2122
Mercury	2348-11-12 01:11 G	2578964.46	2578964.55	2578964.64	0.2685	0.1512
Mercury	2358-05-13 04:33 G	2582433.54	2582433.69	2582433.84	0.2647	0.0424
Venus	2360-12-12 21:50 G	2583378.29	2583378.41	2583378.54	0.2710	0.1539
Mercury	2361-11-14 18:28 G	2583715.16	2583715.27	2583715.38	0.2684	0.0305
Venus	2368-12-10 15:21 G	2586298.11	2586298.14	2586298.18	0.2711	0.2617
Mercury	2371-05-16 12:43 G	2587184.97	2587185.03	2587185.10	0.2647	0.2396
Mercury	2374-11-17 11:45 G	2588465.89	2588465.99	2588466.09	0.2686	0.1116
Mercury	2381-11-10 12:28 G	2591016.00	2591016.02	2591016.03	0.2688	0.2656
Mercury	2387-11-20 05:02 G	2593216.66	2593216.71	2593216.76	0.2693	0.2367
Mercury	2394-11-13 06:00 G	2595766.66	2595766.75	2595766.85	0.2685	0.1339
Mercury	2404-05-13 11:16 G	2599235.81	2599235.97	2599236.13	0.2647	0.0047
Mercury	2407-11-15 23:16 G	2600517.36	2600517.47	2600517.58	0.2684	0.0101
Mercury	2420-11-17 16:33 G	2605268.09	2605268.19	2605268.28	0.2686	0.1297
Mercury	2427-11-11 17:16 G	2607818.17	2607818.22	2607818.27	0.2686	0.2385
Mercury	2437-05-11 10:48 G	2611286.87	2611286.95	2611287.03	0.2647	0.2254
Mercury	2440-11-13 10:48 G	2612568.85	2612568.95	2612569.05	0.2685	0.0962
Mercury	2450-05-14 18:14 G	2616038.11	2616038.26	2616038.41	0.2647	0.0703
Mercury	2453-11-16 04:04 G	2617319.56	2617319.67	2617319.78	0.2684	0.0268
Mercury	2466-11-18 21:07 G	2622070.30	2622070.38	2622070.47	0.2688	0.1678
Mercury	2473-11-11 22:04 G	2624620.35	2624620.42	2624620.49	0.2686	0.2105

Mercury	2483-05-12 17:16 G	2628089.10	2628089.22	2628089.34	0.2647	0.1763
Mercury	2486-11-14 15:35 G	2629371.04	2629371.15	2629371.25	0.2684	0.0760
Mercury	2496-05-15 01:11 G	2632840.41	2632840.55	2632840.69	0.2648	0.1226
Venus	2498-06-10 12:57 G	2633596.88	2633597.04	2633597.20	0.2627	0.0442
Mercury	2499-11-17 08:38 G	2634121.76	2634121.86	2634121.97	0.2684	0.0634
Mercury	2512-11-20 01:55 G	2638872.50	2638872.58	2638872.66	0.2689	0.1834
Mercury	2519-11-14 02:52 G	2641422.54	2641422.62	2641422.70	0.2686	0.1774
Mercury	2529-05-14 00:00 G	2644891.36	2644891.50	2644891.64	0.2646	0.1104
Mercury	2532-11-15 20:09 G	2646173.23	2646173.34	2646173.45	0.2683	0.0471
Mercury	2542-05-17 08:09 G	2649642.73	2649642.84	2649642.95	0.2648	0.1838
Mercury	2545-11-18 13:26 G	2650923.96	2650924.06	2650924.17	0.2685	0.0827
Mercury	2558-11-21 06:28 G	2655674.71	2655674.77	2655674.83	0.2690	0.2215
Mercury	2565-11-14 07:40 G	2658224.73	2658224.82	2658224.91	0.2686	0.1558
Mercury	2575-05-15 06:43 G	2661693.63	2661693.78	2661693.94	0.2647	0.0655
Mercury	2578-11-17 00:57 G	2662975.43	2662975.54	2662975.65	0.2683	0.0165
Mercury	2588-05-17 14:52 G	2666445.06	2666445.12	2666445.17	0.2648	0.2456
Mercury	2591-11-19 18:00 G	2667726.15	2667726.25	2667726.35	0.2686	0.1131
Venus	2603-12-16 06:00 G	2672134.65	2672134.75	2672134.85	0.2702	0.2082
Mercury	2604-11-22 11:16 G	2672476.93	2672476.97	2672477.02	0.2690	0.2404
Mercury	2611-11-16 12:28 G	2675026.92	2675027.02	2675027.11	0.2684	0.1191
Venus	2611-12-13 15:50 G	2675054.06	2675054.16	2675054.27	0.2697	0.2062
Mercury	2621-05-16 13:40 G	2678495.92	2678496.07	2678496.23	0.2648	0.0124
Mercury	2624-11-18 05:45 G	2679777.63	2679777.74	2679777.85	0.2683	0.0069
Mercury	2637-11-20 22:48 G	2684528.36	2684528.45	2684528.54	0.2686	0.1404
Mercury	2644-11-13 23:31 G	2687078.43	2687078.48	2687078.54	0.2688	0.2273
Mercury	2654-05-14 12:57 G	2690546.96	2690547.04	2690547.12	0.2646	0.2241
Mercury	2657-11-16 17:16 G	2691829.11	2691829.22	2691829.32	0.2683	0.1026
Mercury	2667-05-17 20:24 G	2695298.20	2695298.35	2695298.51	0.2649	0.0482
Mercury	2670-11-19 10:19 G	2696579.83	2696579.93	2696580.04	0.2683	0.0423
Mercury	2683-11-22 03:35 G	2701330.56	2701330.65	2701330.73	0.2686	0.1640

Mercury	2690-11-15 04:19 G	2703880.62	2703880.68	2703880.75	0.2686	0.2095
Mercury	2700-05-15 19:40 G	2707349.21	2707349.32	2707349.43	0.2648	0.1814
Mercury	2703-11-18 22:04 G	2708631.31	2708631.42	2708631.52	0.2683	0.0620
Mercury	2713-05-19 03:07 G	2712100.49	2712100.63	2712100.77	0.2649	0.1263
Mercury	2716-11-20 15:07 G	2713382.02	2713382.13	2713382.24	0.2684	0.0578
Mercury	2729-11-23 08:24 G	2718132.77	2718132.85	2718132.92	0.2687	0.1992
Venus	2733-06-15 13:55 G	2719432.95	2719433.08	2719433.21	0.2624	0.1533
Mercury	2736-11-16 09:07 G	2720682.80	2720682.88	2720682.97	0.2684	0.1731
Venus	2741-06-13 05:16 G	2722352.60	2722352.72	2722352.84	0.2630	0.1730
Mercury	2746-05-17 02:24 G	2724151.46	2724151.60	2724151.74	0.2649	0.1158
Mercury	2749-11-19 02:38 G	2725433.51	2725433.61	2725433.72	0.2683	0.0459
Mercury	2759-05-20 10:04 G	2728902.80	2728902.92	2728903.04	0.2648	0.1669
Mercury	2762-11-21 19:40 G	2730184.22	2730184.32	2730184.42	0.2684	0.0964
Mercury	2775-11-24 12:57 G	2734934.98	2734935.04	2734935.11	0.2688	0.2182
Mercury	2782-11-17 14:09 G	2737484.99	2737485.09	2737485.18	0.2683	0.1483
Mercury	2792-05-17 09:07 G	2740953.73	2740953.88	2740954.03	0.2649	0.0640
Mercury	2795-11-20 07:26 G	2742235.70	2742235.81	2742235.92	0.2683	0.0101
Mercury	2805-05-20 17:02 G	2745705.15	2745705.21	2745705.27	0.2648	0.2438
Mercury	2808-11-22 00:28 G	2746986.42	2746986.52	2746986.62	0.2684	0.1122
Mercury	2815-11-16 01:11 G	2749536.51	2749536.55	2749536.58	0.2687	0.2554
Mercury	2821-11-24 17:45 G	2751737.21	2751737.24	2751737.27	0.2690	0.2569
Mercury	2828-11-17 18:57 G	2754287.19	2754287.29	2754287.39	0.2684	0.1177
Mercury	2838-05-18 15:35 G	2757756.00	2757756.15	2757756.31	0.2649	0.0107
Mercury	2841-11-20 12:00 G	2759037.89	2759038.00	2759038.11	0.2682	0.0118
Venus	2846-12-16 18:28 G	2760890.11	2760890.27	2760890.43	0.2703	0.0300
Mercury	2854-11-23 05:16 G	2763788.63	2763788.72	2763788.81	0.2684	0.1511
Mercury	2861-11-16 06:00 G	2766338.70	2766338.75	2766338.80	0.2685	0.2335
Mercury	2871-05-16 15:21 G	2769807.09	2769807.14	2769807.19	0.2649	0.2468
Mercury	2874-11-18 23:31 G	2771089.38	2771089.48	2771089.59	0.2683	0.0888
Mercury	2884-05-18 22:33 G	2774558.29	2774558.44	2774558.60	0.2649	0.0572

Mercury	2887-11-21 16:48 G	2775840.09	2775840.20	2775840.31	0.2682	0.0422
Mercury	2900-11-24 10:04 G	2780590.83	2780590.92	2780591.00	0.2686	0.1701
Mercury	2907-11-18 10:48 G	2783140.88	2783140.95	2783141.03	0.2685	0.1923
Mercury	2917-05-17 21:50 G	2786609.29	2786609.41	2786609.53	0.2648	0.1723
Mercury	2920-11-20 04:19 G	2787891.57	2787891.68	2787891.79	0.2683	0.0661
Mercury	2930-05-21 05:31 G	2791360.59	2791360.73	2791360.88	0.2650	0.1061
Mercury	2933-11-22 21:35 G	2792642.29	2792642.40	2792642.50	0.2682	0.0707
Mercury	2946-11-25 14:38 G	2797393.04	2797393.11	2797393.18	0.2687	0.2009
Mercury	2953-11-18 15:35 G	2799943.07	2799943.15	2799943.23	0.2685	0.1759
Mercury	2963-05-19 04:33 G	2803411.56	2803411.69	2803411.82	0.2648	0.1364
Mercury	2966-11-21 08:52 G	2804693.76	2804693.87	2804693.98	0.2681	0.0312
Mercury	2976-05-21 12:28 G	2808162.90	2808163.02	2808163.13	0.2650	0.1814
Mercury	2979-11-24 02:09 G	2809444.49	2809444.59	2809444.70	0.2683	0.0953
Venus	2984-06-14 19:11 G	2811109.15	2811109.30	2811109.45	0.2633	0.0602
Mercury	2992-11-25 19:26 G	2814195.25	2814195.31	2814195.37	0.2688	0.2279
Mercury	2999-11-19 20:24 G	2816745.26	2816745.35	2816745.44	0.2684	0.1354

4TH MILLENNIUM CE

This is a list of transits visible from Moon in the 4th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	3009-05-20 11:16 G		2820213.82	2820213.97	2820214.12	0.2649	0.0595	
Mercury	3012-11-22 13:40 G		2821495.96	2821496.07	2821496.18	0.2681	0.0155	
Mercury	3022-05-23 18:57 G		2824965.21	2824965.29	2824965.38	0.2650	0.2182	

Mercury	3025-11-25 06:57 G	2826246.69	2826246.79	2826246.88	0.2684	0.1280
Mercury	3032-11-18 07:26 G	2828796.77	2828796.81	2828796.85	0.2687	0.2492
Mercury	3038-11-28 00:14 G	2830997.48	2830997.51	2830997.54	0.2688	0.2550
Mercury	3045-11-21 01:11 G	2833547.45	2833547.55	2833547.65	0.2682	0.1185
Mercury	3055-05-21 18:14 G	2837016.11	2837016.26	2837016.42	0.2650	0.0161
Mercury	3058-11-23 18:28 G	2838298.16	2838298.27	2838298.38	0.2681	0.0276
Mercury	3071-11-26 11:31 G	2843048.89	2843048.98	2843049.08	0.2684	0.1452
Mercury	3078-11-19 12:14 G	2845598.96	2845599.01	2845599.07	0.2686	0.2254
Mercury	3088-05-18 17:45 G	2849067.17	2849067.24	2849067.30	0.2648	0.2414
Venus	3089-12-19 03:35 G	2849646.54	2849646.65	2849646.77	0.2705	0.1782
Mercury	3091-11-22 06:00 G	2850349.64	2850349.75	2850349.85	0.2681	0.0819
Mercury	3101-05-23 00:57 G	2853818.39	2853818.54	2853818.69	0.2651	0.0534
Mercury	3104-11-24 23:16 G	2855100.36	2855100.47	2855100.58	0.2682	0.0431
Mercury	3117-11-27 16:19 G	2859851.10	2859851.18	2859851.26	0.2684	0.1849
Mercury	3124-11-20 17:02 G	2862401.14	2862401.21	2862401.29	0.2685	0.1950
Mercury	3134-05-21 00:28 G	2865869.41	2865869.52	2865869.62	0.2650	0.1894
Mercury	3137-11-23 10:48 G	2867151.84	2867151.95	2867152.05	0.2681	0.0595
Mercury	3147-05-24 07:40 G	2870620.67	2870620.82	2870620.96	0.2650	0.1012
Mercury	3150-11-26 03:50 G	2871902.56	2871902.66	2871902.77	0.2682	0.0786
Mercury	3163-11-28 21:07 G	2876653.31	2876653.38	2876653.45	0.2685	0.2008
Mercury	3170-11-21 21:50 G	2879203.33	2879203.41	2879203.50	0.2683	0.1625
Mercury	3180-05-21 06:57 G	2882671.65	2882671.79	2882671.93	0.2651	0.1223
Mercury	3183-11-24 15:35 G	2883954.04	2883954.15	2883954.26	0.2682	0.0292
Mercury	3193-05-24 14:24 G	2887422.98	2887423.10	2887423.22	0.2650	0.1636
Mercury	3196-11-26 08:38 G	2888704.76	2888704.86	2888704.96	0.2682	0.0988
Mercury	3209-11-29 01:55 G	2893455.53	2893455.58	2893455.62	0.2687	0.2397
Mercury	3216-11-22 02:38 G	2896005.52	2896005.61	2896005.71	0.2682	0.1408
Venus	3219-06-19 23:31 G	2896945.41	2896945.48	2896945.56	0.2624	0.2298
Mercury	3226-05-22 13:40 G	2899473.92	2899474.07	2899474.21	0.2651	0.0829
Venus	3227-06-17 12:28 G	2899864.86	2899865.02	2899865.17	0.2628	0.0939

Mercury	3229-11-24 20:09 G	2900756.23	2900756.34	2900756.45	0.2681	0.0006
Mercury	3239-05-25 21:21 G	2904225.32	2904225.39	2904225.47	0.2650	0.2286
Mercury	3242-11-27 13:26 G	2905506.96	2905507.06	2905507.15	0.2682	0.1318
Mercury	3249-11-20 13:40 G	2908057.04	2908057.07	2908057.10	0.2685	0.2544
Mercury	3255-11-30 06:28 G	2910257.75	2910257.77	2910257.80	0.2688	0.2583
Mercury	3262-11-23 07:40 G	2912807.71	2912807.82	2912807.92	0.2683	0.1020
Mercury	3272-05-22 20:09 G	2916276.18	2916276.34	2916276.49	0.2650	0.0091
Mercury	3275-11-26 00:57 G	2917558.43	2917558.54	2917558.65	0.2681	0.0248
Mercury	3288-11-27 18:00 G	2922309.17	2922309.25	2922309.34	0.2683	0.1579
Mercury	3295-11-21 18:43 G	2924859.21	2924859.28	2924859.34	0.2684	0.2126
Mercury	3305-05-21 19:55 G	2928327.26	2928327.33	2928327.39	0.2651	0.2388
Mercury	3308-11-24 12:14 G	2929609.91	2929610.01	2929610.12	0.2682	0.0848
Mercury	3318-05-25 03:07 G	2933078.48	2933078.63	2933078.78	0.2651	0.0320
Mercury	3321-11-27 05:31 G	2934360.63	2934360.73	2934360.84	0.2680	0.0587
Venus	3332-12-20 18:14 G	2938402.10	2938402.26	2938402.43	0.2695	0.0057
Mercury	3334-11-29 22:48 G	2939111.37	2939111.45	2939111.53	0.2684	0.1823
Mercury	3341-11-22 23:31 G	2941661.40	2941661.48	2941661.55	0.2684	0.1939
Mercury	3351-05-23 02:38 G	2945129.51	2945129.61	2945129.71	0.2650	0.1992
Mercury	3354-11-25 17:02 G	2946412.10	2946412.21	2946412.32	0.2681	0.0457
Mercury	3364-05-25 10:04 G	2949880.78	2949880.92	2949881.06	0.2652	0.1107
Mercury	3367-11-28 10:19 G	2951162.83	2951162.93	2951163.04	0.2680	0.0765
Mercury	3380-11-30 03:21 G	2955913.58	2955913.64	2955913.71	0.2685	0.2164
Mercury	3387-11-24 04:19 G	2958463.59	2958463.68	2958463.77	0.2684	0.1545
Mercury	3397-05-23 09:21 G	2961931.75	2961931.89	2961932.02	0.2650	0.1305
Mercury	3400-11-26 21:50 G	2963214.30	2963214.41	2963214.52	0.2680	0.0299
Mercury	3410-05-27 16:48 G	2966683.08	2966683.20	2966683.33	0.2652	0.1522
Mercury	3413-11-29 15:07 G	2967965.03	2967965.13	2967965.23	0.2681	0.1145
Mercury	3426-12-02 08:09 G	2972715.79	2972715.84	2972715.89	0.2685	0.2342
Mercury	3433-11-25 09:07 G	2975265.78	2975265.88	2975265.97	0.2683	0.1332
Mercury	3443-05-25 16:04 G	2978734.02	2978734.17	2978734.31	0.2651	0.0786

Mercury	3446-11-28 02:38 G	2980016.50	2980016.61	2980016.72	0.2680	0.0130
Mercury	3456-05-27 23:31 G	2983485.40	2983485.48	2983485.56	0.2652	0.2241
Mercury	3459-11-30 19:40 G	2984767.22	2984767.32	2984767.42	0.2682	0.1299
Venus	3462-06-22 00:57 G	2985701.48	2985701.54	2985701.60	0.2638	0.2394
Mercury	3466-11-23 20:09 G	2987317.29	2987317.34	2987317.38	0.2686	0.2403
Venus	3470-06-19 22:04 G	2988621.27	2988621.42	2988621.56	0.2639	0.0750
Mercury	3479-11-26 13:55 G	2992067.98	2992068.08	2992068.18	0.2681	0.1029
Mercury	3489-05-25 22:48 G	2995536.30	2995536.45	2995536.60	0.2652	0.0230
Mercury	3492-11-28 07:11 G	2996818.69	2996818.80	2996818.91	0.2680	0.0314
Mercury	3505-12-02 00:28 G	3001569.43	3001569.52	3001569.60	0.2682	0.1673
Mercury	3512-11-25 00:57 G	3004119.48	3004119.54	3004119.60	0.2685	0.2175
Mercury	3522-05-24 22:19 G	3007587.41	3007587.43	3007587.46	0.2650	0.2592
Mercury	3525-11-27 18:43 G	3008870.17	3008870.28	3008870.38	0.2680	0.0720
Mercury	3535-05-28 05:16 G	3012338.57	3012338.72	3012338.88	0.2653	0.0413
Mercury	3538-11-30 12:00 G	3013620.89	3013621.00	3013621.11	0.2680	0.0610
Mercury	3551-12-03 05:16 G	3018371.64	3018371.72	3018371.79	0.2682	0.1864
Mercury	3558-11-26 05:45 G	3020921.66	3020921.74	3020921.82	0.2683	0.1781
Mercury	3568-05-25 05:02 G	3024389.60	3024389.71	3024389.82	0.2652	0.1844
Mercury	3571-11-28 23:31 G	3025672.37	3025672.48	3025672.59	0.2680	0.0478
Venus	3575-12-23 23:02 G	3027158.31	3027158.46	3027158.60	0.2706	0.0522
Mercury	3581-05-28 12:00 G	3029140.86	3029141.00	3029141.15	0.2652	0.0863
Mercury	3584-11-30 16:33 G	3030423.09	3030423.19	3030423.30	0.2680	0.0872
Mercury	3597-12-03 09:50 G	3035173.86	3035173.91	3035173.98	0.2683	0.2216
Mercury	3604-11-26 10:33 G	3037723.86	3037723.94	3037724.03	0.2682	0.1606
Mercury	3614-05-26 11:45 G	3041191.86	3041191.99	3041192.11	0.2653	0.1501
Mercury	3617-11-29 04:19 G	3042474.57	3042474.68	3042474.79	0.2680	0.0158
Mercury	3627-05-29 18:57 G	3045943.16	3045943.29	3045943.41	0.2652	0.1598
Mercury	3630-12-01 21:21 G	3047225.29	3047225.39	3047225.49	0.2680	0.1112
Mercury	3643-12-04 14:38 G	3051976.07	3051976.11	3051976.15	0.2685	0.2458
Mercury	3650-11-27 15:21 G	3054526.04	3054526.14	3054526.24	0.2681	0.1187

Mercury	3660-05-26 18:14 G	3057994.11	3057994.26	3057994.41	0.2653	0.0747
Mercury	3663-11-30 08:52 G	3059276.76	3059276.87	3059276.98	0.2680	0.0055
Mercury	3673-05-30 01:55 G	3062745.48	3062745.58	3062745.68	0.2652	0.2032
Mercury	3676-12-02 02:09 G	3064027.50	3064027.59	3064027.68	0.2680	0.1460
Mercury	3683-11-26 02:24 G	3066577.55	3066577.60	3066577.65	0.2684	0.2350
Mercury	3696-11-27 20:09 G	3071328.24	3071328.34	3071328.45	0.2681	0.1024
Mercury	3706-05-29 00:57 G	3074796.39	3074796.54	3074796.69	0.2652	0.0359
Mercury	3709-12-01 13:40 G	3076078.96	3076079.07	3076079.17	0.2679	0.0444
Venus	3713-06-21 22:04 G	3077377.26	3077377.42	3077377.59	0.2628	0.0539
Mercury	3722-12-04 06:57 G	3080829.70	3080829.79	3080829.87	0.2681	0.1650
Mercury	3729-11-27 07:11 G	3083379.74	3083379.80	3083379.87	0.2683	0.2086
Mercury	3739-05-27 00:43 G	3086847.49	3086847.53	3086847.57	0.2652	0.2535
Mercury	3742-11-30 00:57 G	3088130.43	3088130.54	3088130.65	0.2681	0.0627
Mercury	3752-05-29 07:40 G	3091598.67	3091598.82	3091598.98	0.2653	0.0372
Mercury	3755-12-02 18:14 G	3092881.16	3092881.26	3092881.37	0.2678	0.0602
Mercury	3768-12-04 11:31 G	3097631.91	3097631.98	3097632.05	0.2682	0.2020
Mercury	3775-11-28 12:14 G	3100181.92	3100182.01	3100182.09	0.2683	0.1779
Mercury	3785-05-27 07:11 G	3103649.71	3103649.80	3103649.90	0.2652	0.2047
Mercury	3788-11-30 05:45 G	3104932.63	3104932.74	3104932.85	0.2679	0.0428
Mercury	3798-05-30 14:38 G	3108400.96	3108401.11	3108401.25	0.2654	0.0889
Mercury	3801-12-03 23:02 G	3109683.36	3109683.46	3109683.57	0.2679	0.0996
Mercury	3814-12-06 16:19 G	3114434.12	3114434.18	3114434.24	0.2683	0.2177
Venus	3818-12-25 20:24 G	3115914.18	3115914.35	3115914.51	0.2691	0.0384
Mercury	3821-11-29 17:02 G	3116984.11	3116984.21	3116984.30	0.2683	0.1474
Mercury	3831-05-29 13:55 G	3120451.95	3120452.08	3120452.21	0.2652	0.1396
Mercury	3834-12-02 10:33 G	3121734.83	3121734.94	3121735.05	0.2678	0.0134
Mercury	3844-05-31 21:21 G	3125203.26	3125203.39	3125203.52	0.2654	0.1464
Mercury	3847-12-05 03:50 G	3126485.56	3126485.66	3126485.76	0.2680	0.1172
Mercury	3854-11-28 03:50 G	3129035.63	3129035.66	3129035.69	0.2684	0.2559
Mercury	3860-12-06 21:07 G	3131236.35	3131236.38	3131236.40	0.2683	0.2576

Mercury	3867-11-30 21:50 G	3133786.31	3133786.41	3133786.50	0.2681	0.1232
Mercury	3877-05-29 20:38 G	3137254.22	3137254.36	3137254.51	0.2653	0.0964
Mercury	3880-12-02 15:21 G	3138537.03	3138537.14	3138537.25	0.2678	0.0181
Mercury	3890-06-02 03:50 G	3142005.56	3142005.66	3142005.76	0.2654	0.2064
Mercury	3893-12-05 08:24 G	3143287.76	3143287.85	3143287.94	0.2680	0.1485
Mercury	3900-11-29 08:38 G	3145837.82	3145837.86	3145837.91	0.2684	0.2391
Mercury	3913-12-02 02:38 G	3150588.50	3150588.61	3150588.71	0.2680	0.0861
Mercury	3923-06-01 03:21 G	3154056.49	3154056.64	3154056.80	0.2654	0.0207
Mercury	3926-12-04 20:09 G	3155339.23	3155339.34	3155339.45	0.2679	0.0438
Mercury	3936-06-03 10:48 G	3158807.91	3158807.95	3158807.98	0.2653	0.2575
Mercury	3939-12-07 13:11 G	3160089.97	3160090.05	3160090.13	0.2680	0.1747
Mercury	3946-11-30 13:26 G	3162639.99	3162640.06	3162640.14	0.2684	0.1967
Venus	3948-06-26 03:21 G	3163213.55	3163213.64	3163213.74	0.2636	0.2068
Mercury	3956-05-29 03:21 G	3166107.59	3166107.64	3166107.69	0.2652	0.2500
Venus	3956-06-23 23:02 G	3166133.31	3166133.46	3166133.61	0.2641	0.0544
Mercury	3959-12-03 07:26 G	3167390.70	3167390.81	3167390.91	0.2679	0.0684
Mercury	3969-06-01 10:04 G	3170858.76	3170858.92	3170859.07	0.2654	0.0153
Mercury	3972-12-05 00:43 G	3172141.43	3172141.53	3172141.64	0.2679	0.0759
Mercury	3985-12-07 18:00 G	3176892.18	3176892.25	3176892.32	0.2680	0.2016
Mercury	3992-11-30 18:28 G	3179442.18	3179442.27	3179442.35	0.2682	0.1784

5TH MILLENNIUM CE

This is a list of transits visible from Moon in the 5th millennium CE.

PLANET	MAX- TRANSIT	C	START	MAX	END	SUNRAD	DEPTH	S
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TIME

Mercury	4002-05-30 09:50 G	3182909.82	3182909.91	3182910.01	0.2654	0.2082
Mercury	4005-12-03 12:14 G	3184192.90	3184193.01	3184193.12	0.2679	0.0270
Mercury	4015-06-02 16:33 G	3187661.05	3187661.19	3187661.34	0.2654	0.0922
Mercury	4018-12-06 05:31 G	3188943.62	3188943.73	3188943.83	0.2678	0.0937
Mercury	4031-12-08 22:48 G	3193694.40	3193694.45	3193694.50	0.2681	0.2343
Mercury	4038-12-01 23:16 G	3196244.37	3196244.47	3196244.56	0.2680	0.1394
Mercury	4048-05-30 16:33 G	3199712.06	3199712.19	3199712.31	0.2654	0.1462
Mercury	4051-12-04 17:02 G	3200995.10	3200995.21	3200995.32	0.2679	0.0128
Mercury	4061-06-02 23:31 G	3204463.35	3204463.48	3204463.61	0.2654	0.1333
Venus	4061-12-26 18:00 G	3204670.10	3204670.25	3204670.39	0.2704	0.0713
Mercury	4064-12-06 10:04 G	3205745.83	3205745.92	3205746.02	0.2678	0.1324
Mercury	4071-11-30 10:04 G	3208295.89	3208295.92	3208295.94	0.2684	0.2589
Mercury	4077-12-09 03:21 G	3210496.61	3210496.64	3210496.68	0.2683	0.2541
Mercury	4084-12-02 04:04 G	3213046.57	3213046.67	3213046.77	0.2680	0.1159
Mercury	4094-05-31 23:02 G	3216514.31	3216514.46	3216514.60	0.2654	0.0950
Mercury	4097-12-04 21:35 G	3217797.29	3217797.40	3217797.51	0.2678	0.0270
Mercury	4107-06-05 06:28 G	3221265.68	3221265.77	3221265.87	0.2654	0.2074
Mercury	4110-12-08 14:52 G	3222548.03	3222548.12	3222548.21	0.2678	0.1487
Mercury	4117-12-01 14:52 G	3225098.06	3225098.12	3225098.18	0.2682	0.2243
Mercury	4130-12-04 08:52 G	3229848.77	3229848.87	3229848.98	0.2680	0.0830
Mercury	4140-06-02 05:31 G	3233316.58	3233316.73	3233316.89	0.2654	0.0400
Mercury	4143-12-07 02:24 G	3234599.49	3234599.60	3234599.71	0.2677	0.0468
Mercury	4153-06-05 13:11 G	3238068.02	3238068.05	3238068.09	0.2655	0.2570
Mercury	4156-12-08 19:40 G	3239350.24	3239350.32	3239350.40	0.2679	0.1877
Mercury	4163-12-02 19:55 G	3241900.26	3241900.33	3241900.40	0.2682	0.2011
Mercury	4176-12-04 13:40 G	3246650.96	3246651.07	3246651.18	0.2680	0.0553
Mercury	4186-06-03 12:28 G	3250118.87	3250119.02	3250119.17	0.2655	0.0262
Mercury	4189-12-07 07:11 G	3251401.69	3251401.80	3251401.90	0.2677	0.0806
Venus	4199-06-26 08:09 G	3254889.68	3254889.84	3254890.00	0.2633	0.0281

Mercury	4202-12-11 00:14 G	3256152.45	3256152.51	3256152.58	0.2680	0.2056
Mercury	4209-12-04 00:43 G	3258702.45	3258702.53	3258702.62	0.2682	0.1608
Mercury	4219-06-02 12:14 G	3262169.91	3262170.01	3262170.11	0.2654	0.1994
Mercury	4222-12-06 18:28 G	3263453.16	3263453.27	3263453.38	0.2678	0.0308
Mercury	4232-06-04 19:11 G	3266921.16	3266921.30	3266921.45	0.2656	0.0713
Mercury	4235-12-09 12:00 G	3268203.89	3268204.00	3268204.10	0.2677	0.1066
Mercury	4248-12-11 05:02 G	3272954.66	3272954.71	3272954.76	0.2681	0.2385
Mercury	4255-12-05 05:45 G	3275504.64	3275504.74	3275504.83	0.2681	0.1432
Mercury	4265-06-02 18:57 G	3278972.17	3278972.29	3278972.41	0.2654	0.1622
Mercury	4268-12-06 23:16 G	3280255.36	3280255.47	3280255.58	0.2677	0.0077
Mercury	4278-06-06 01:55 G	3283723.45	3283723.58	3283723.71	0.2656	0.1462
Mercury	4281-12-09 16:33 G	3285006.10	3285006.19	3285006.29	0.2678	0.1323
Mercury	4288-12-02 16:19 G	3287556.16	3287556.18	3287556.21	0.2683	0.2568
Mercury	4294-12-12 09:50 G	3289756.89	3289756.91	3289756.93	0.2681	0.2636
Mercury	4301-12-06 10:19 G	3292306.83	3292306.93	3292307.04	0.2680	0.1022
Venus	4304-12-29 22:48 G	3293426.29	3293426.45	3293426.62	0.2690	0.0316
Mercury	4311-06-05 01:40 G	3295774.43	3295774.57	3295774.71	0.2655	0.0870
Mercury	4314-12-09 04:04 G	3297057.56	3297057.67	3297057.78	0.2677	0.0241
Mercury	4324-06-07 08:38 G	3300525.75	3300525.86	3300525.97	0.2655	0.1836
Mercury	4327-12-11 21:21 G	3301808.30	3301808.39	3301808.47	0.2678	0.1646
Mercury	4334-12-04 21:21 G	3304358.32	3304358.39	3304358.45	0.2683	0.2173
Mercury	4347-12-07 15:07 G	3309109.03	3309109.13	3309109.24	0.2678	0.0849
Mercury	4357-06-05 08:24 G	3312576.70	3312576.85	3312577.00	0.2656	0.0462
Mercury	4360-12-09 08:52 G	3313859.76	3313859.87	3313859.97	0.2677	0.0641
Mercury	4370-06-08 15:21 G	3317328.12	3317328.14	3317328.16	0.2655	0.2621
Mercury	4373-12-12 01:55 G	3318610.50	3318610.58	3318610.66	0.2678	0.1827
Mercury	4380-12-05 02:09 G	3321160.52	3321160.59	3321160.67	0.2682	0.1944
Mercury	4390-06-03 08:24 G	3324627.84	3324627.85	3324627.86	0.2654	0.2637
Mercury	4393-12-07 20:09 G	3325911.23	3325911.34	3325911.44	0.2677	0.0462
Mercury	4403-06-06 14:52 G	3329378.96	3329379.12	3329379.27	0.2656	0.0209

Mercury	4406-12-10 13:26 G	3330661.96	3330662.06	3330662.17	0.2677	0.0795
Mercury	4419-12-13 06:43 G	3335412.72	3335412.78	3335412.84	0.2678	0.2222
Mercury	4426-12-06 06:57 G	3337962.71	3337962.79	3337962.88	0.2681	0.1613
Mercury	4436-06-03 14:52 G	3341430.04	3341430.12	3341430.21	0.2656	0.2159
Mercury	4439-12-09 00:57 G	3342713.43	3342713.54	3342713.65	0.2678	0.0248
Venus	4442-06-28 01:11 G	3343645.40	3343645.55	3343645.71	0.2639	0.0585
Mercury	4449-06-06 21:35 G	3346181.25	3346181.40	3346181.54	0.2656	0.0698
Mercury	4452-12-10 18:14 G	3347464.16	3347464.26	3347464.36	0.2676	0.1164
Mercury	4465-12-13 11:31 G	3352214.93	3352214.98	3352215.03	0.2679	0.2383
Mercury	4472-12-06 12:00 G	3354764.90	3354765.00	3354765.09	0.2679	0.1285
Mercury	4482-06-04 21:21 G	3358232.27	3358232.39	3358232.52	0.2656	0.1495
Mercury	4485-12-09 05:45 G	3359515.62	3359515.74	3359515.85	0.2678	0.0143
Mercury	4495-06-08 04:19 G	3362983.55	3362983.68	3362983.81	0.2656	0.1301
Mercury	4498-12-11 23:02 G	3364266.36	3364266.46	3364266.55	0.2676	0.1358
Mercury	4505-12-05 22:33 G	3366816.40	3366816.44	3366816.49	0.2683	0.2420
Mercury	4518-12-08 16:48 G	3371567.10	3371567.20	3371567.30	0.2679	0.1044
Mercury	4528-06-06 03:50 G	3375034.52	3375034.66	3375034.80	0.2656	0.1115
Mercury	4531-12-11 10:19 G	3376317.82	3376317.93	3376318.04	0.2677	0.0362
Venus	4540-01-02 23:31 G	3379262.42	3379262.48	3379262.55	0.2694	0.2463
Mercury	4541-06-09 11:16 G	3379785.86	3379785.97	3379786.07	0.2656	0.1957
Mercury	4544-12-13 03:50 G	3381068.57	3381068.66	3381068.74	0.2677	0.1715
Venus	4547-12-31 13:55 G	3382181.94	3382182.08	3382182.22	0.2698	0.1182
Mercury	4551-12-07 03:35 G	3383618.59	3383618.65	3383618.71	0.2681	0.2216
Mercury	4564-12-08 21:35 G	3388369.29	3388369.40	3388369.51	0.2679	0.0672
Mercury	4574-06-07 10:33 G	3391836.79	3391836.94	3391837.09	0.2656	0.0372
Mercury	4577-12-11 15:07 G	3393120.02	3393120.13	3393120.24	0.2676	0.0604
Mercury	4587-06-10 17:45 G	3396588.18	3396588.24	3396588.30	0.2657	0.2406
Mercury	4590-12-14 08:24 G	3397870.78	3397870.85	3397870.93	0.2678	0.1950
Mercury	4597-12-07 08:24 G	3400420.77	3400420.85	3400420.94	0.2680	0.1784
Mercury	4607-06-06 10:48 G	3403887.93	3403887.95	3403887.98	0.2656	0.2613

Mercury	4610-12-11 02:24 G	3405171.49	3405171.60	3405171.71	0.2678	0.0482
Mercury	4620-06-08 17:31 G	3408639.08	3408639.23	3408639.38	0.2657	0.0042
Mercury	4623-12-13 19:55 G	3409922.23	3409922.33	3409922.43	0.2675	0.0956
Mercury	4636-12-15 13:11 G	3414672.99	3414673.05	3414673.11	0.2678	0.2207
Mercury	4643-12-09 13:26 G	3417222.97	3417223.06	3417223.15	0.2680	0.1605
Mercury	4653-06-06 17:16 G	3420690.14	3420690.22	3420690.31	0.2655	0.2226
Mercury	4656-12-11 07:11 G	3421973.69	3421973.80	3421973.91	0.2676	0.0096
Mercury	4666-06-10 00:00 G	3425441.36	3425441.50	3425441.65	0.2657	0.0800
Mercury	4669-12-14 00:43 G	3426724.43	3426724.53	3426724.63	0.2676	0.1155
Mercury	4682-12-16 17:45 G	3431475.21	3431475.24	3431475.28	0.2679	0.2534
Venus	4685-06-30 14:24 G	3432401.95	3432402.10	3432402.26	0.2640	0.0306
Mercury	4689-12-09 18:14 G	3434025.16	3434025.26	3434025.36	0.2680	0.1199
Mercury	4699-06-08 00:00 G	3437492.38	3437492.50	3437492.62	0.2656	0.1571
Mercury	4702-12-13 12:00 G	3438775.89	3438776.00	3438776.11	0.2675	0.0083
Mercury	4712-06-11 06:43 G	3442243.64	3442243.78	3442243.92	0.2658	0.1179
Mercury	4715-12-16 05:16 G	3443526.63	3443526.72	3443526.81	0.2676	0.1525
Mercury	4722-12-09 05:02 G	3446076.66	3446076.71	3446076.75	0.2682	0.2407
Mercury	4735-12-11 23:02 G	3450827.36	3450827.46	3450827.56	0.2679	0.0987
Mercury	4745-06-09 06:43 G	3454294.64	3454294.78	3454294.92	0.2657	0.1032
Mercury	4748-12-13 16:48 G	3455578.09	3455578.20	3455578.31	0.2676	0.0482
Mercury	4758-06-12 13:11 G	3459045.95	3459046.05	3459046.16	0.2657	0.1886
Mercury	4761-12-16 10:04 G	3460328.83	3460328.92	3460329.00	0.2676	0.1680
Mercury	4768-12-09 09:50 G	3462878.84	3462878.91	3462878.98	0.2682	0.2081
Mercury	4781-12-12 03:50 G	3467629.56	3467629.66	3467629.77	0.2677	0.0657
Venus	4791-01-03 00:00 G	3470938.34	3470938.50	3470938.66	0.2692	0.0411
Mercury	4791-06-10 13:11 G	3471096.90	3471097.05	3471097.20	0.2658	0.0522
Mercury	4794-12-14 21:35 G	3472380.29	3472380.40	3472380.51	0.2676	0.0669
Mercury	4804-06-12 20:09 G	3475848.28	3475848.34	3475848.41	0.2657	0.2389
Mercury	4807-12-17 14:38 G	3477131.04	3477131.11	3477131.18	0.2676	0.2068
Mercury	4814-12-10 14:52 G	3479681.04	3479681.12	3479681.20	0.2681	0.1831

Mercury	4827-12-13 08:52 G	3484431.76	3484431.87	3484431.98	0.2676	0.0366
Mercury	4837-06-10 19:40 G	3487899.17	3487899.32	3487899.47	0.2658	0.0108
Mercury	4840-12-15 02:09 G	3489182.49	3489182.59	3489182.70	0.2676	0.1005
Mercury	4853-12-17 19:40 G	3493933.26	3493933.32	3493933.37	0.2677	0.2254
Mercury	4860-12-10 19:40 G	3496483.23	3496483.32	3496483.41	0.2679	0.1438
Mercury	4870-06-08 19:55 G	3499950.24	3499950.33	3499950.43	0.2658	0.2079
Mercury	4873-12-13 13:40 G	3501233.96	3501234.07	3501234.18	0.2677	0.0123
Mercury	4883-06-12 02:24 G	3504701.45	3504701.60	3504701.75	0.2658	0.0556
Mercury	4886-12-16 06:57 G	3505984.69	3505984.79	3505984.89	0.2675	0.1255
Mercury	4893-12-09 06:14 G	3508534.74	3508534.76	3508534.78	0.2682	0.2605
Mercury	4899-12-19 00:14 G	3510735.49	3510735.51	3510735.53	0.2678	0.2617
Mercury	4906-12-13 00:28 G	3513285.43	3513285.52	3513285.62	0.2678	0.1252
Mercury	4916-06-10 02:38 G	3516752.49	3516752.61	3516752.72	0.2658	0.1740
Mercury	4919-12-15 18:14 G	3518036.15	3518036.26	3518036.38	0.2676	0.0261
Venus	4928-07-02 06:43 G	3521157.63	3521157.78	3521157.93	0.2637	0.0851
Mercury	4929-06-13 09:07 G	3521503.75	3521503.88	3521504.02	0.2658	0.1303
Mercury	4932-12-17 11:45 G	3522786.90	3522786.99	3522787.08	0.2675	0.1519
Mercury	4939-12-11 11:16 G	3525336.92	3525336.97	3525337.01	0.2681	0.2410
Mercury	4952-12-13 05:31 G	3530087.62	3530087.73	3530087.83	0.2678	0.0820
Mercury	4962-06-11 09:07 G	3533554.74	3533554.88	3533555.02	0.2658	0.1008
Mercury	4965-12-15 23:02 G	3534838.35	3534838.46	3534838.57	0.2675	0.0435
Mercury	4975-06-14 16:04 G	3538306.06	3538306.17	3538306.29	0.2658	0.1720
Mercury	4978-12-18 16:33 G	3539589.11	3539589.19	3539589.27	0.2675	0.1848
Mercury	4985-12-11 16:04 G	3542139.10	3542139.17	3542139.25	0.2680	0.2004
Mercury	4998-12-14 10:19 G	3546889.82	3546889.93	3546890.04	0.2678	0.0655

6TH MILLENNIUM CE

This is a list of transits visible from Moon in the 6th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	5008-06-12 15:35	G	3550357.01	3550357.15	3550357.30	0.2658	0.0613	
Mercury	5011-12-18 03:50	G	3551640.55	3551640.66	3551640.76	0.2674	0.0828	
Mercury	5021-06-15 22:33	G	3555108.39	3555108.44	3555108.49	0.2658	0.2477	
Mercury	5024-12-19 21:07	G	3556391.32	3556391.38	3556391.45	0.2676	0.2058	
Venus	5026-01-07 01:55	G	3556774.52	3556774.58	3556774.63	0.2687	0.2534	
Mercury	5031-12-13 21:07	G	3558941.30	3558941.38	3558941.46	0.2679	0.1748	
Venus	5034-01-04 12:28	G	3559693.88	3559694.02	3559694.16	0.2690	0.1270	
Mercury	5044-12-15 15:07	G	3563692.01	3563692.13	3563692.24	0.2677	0.0271	
Mercury	5054-06-13 22:19	G	3567159.28	3567159.43	3567159.59	0.2659	0.0115	
Mercury	5057-12-18 08:38	G	3568442.76	3568442.86	3568442.96	0.2674	0.0991	
Mercury	5070-12-21 01:55	G	3573193.53	3573193.58	3573193.62	0.2677	0.2417	
Mercury	5077-12-14 01:55	G	3575743.49	3575743.58	3575743.68	0.2679	0.1412	
Mercury	5087-06-11 22:33	G	3579210.36	3579210.44	3579210.52	0.2657	0.2260	
Mercury	5090-12-16 19:55	G	3580494.21	3580494.33	3580494.44	0.2675	0.0124	
Mercury	5100-06-15 05:02	G	3583961.56	3583961.71	3583961.86	0.2659	0.0599	
Mercury	5103-12-20 13:26	G	3585244.96	3585245.06	3585245.15	0.2674	0.1392	
Mercury	5110-12-13 12:28	G	3587795.01	3587795.02	3587795.04	0.2680	0.2647	
Mercury	5116-12-22 06:43	G	3589995.75	3589995.78	3589995.80	0.2677	0.2574	
Mercury	5123-12-16 06:43	G	3592545.68	3592545.78	3592545.89	0.2679	0.1125	
Mercury	5133-06-13 05:02	G	3596012.59	3596012.71	3596012.83	0.2658	0.1613	
Mercury	5136-12-18 00:43	G	3597296.42	3597296.53	3597296.64	0.2674	0.0304	
Mercury	5146-06-16 11:31	G	3600763.85	3600763.98	3600764.12	0.2659	0.1148	

Mercury	5149-12-20 18:00 G	3602047.16	3602047.25	3602047.34	0.2675	0.1569
Mercury	5156-12-13 17:31 G	3604597.17	3604597.23	3604597.29	0.2681	0.2230
Mercury	5169-12-16 11:45 G	3609347.88	3609347.99	3609348.09	0.2677	0.0862
Venus	5171-07-05 17:16 G	3609914.07	3609914.22	3609914.36	0.2647	0.0576
Mercury	5179-06-14 11:45 G	3612814.86	3612814.99	3612815.13	0.2659	0.1206
Mercury	5182-12-19 05:31 G	3614098.62	3614098.73	3614098.84	0.2674	0.0561
Mercury	5192-06-16 18:00 G	3617566.14	3617566.25	3617566.37	0.2659	0.1751
Mercury	5195-12-21 22:48 G	3618849.37	3618849.45	3618849.53	0.2675	0.1900
Mercury	5202-12-14 22:19 G	3621399.36	3621399.43	3621399.50	0.2681	0.2048
Mercury	5215-12-17 16:33 G	3626150.08	3626150.19	3626150.30	0.2676	0.0485
Mercury	5225-06-14 18:14 G	3629617.11	3629617.26	3629617.41	0.2660	0.0466
Mercury	5228-12-19 10:19 G	3630900.82	3630900.93	3630901.03	0.2674	0.0840
Mercury	5238-06-18 00:57 G	3634368.46	3634368.54	3634368.62	0.2659	0.2254
Mercury	5241-12-22 03:35 G	3635651.58	3635651.65	3635651.71	0.2674	0.2147
Mercury	5248-12-15 03:21 G	3638201.55	3638201.64	3638201.72	0.2679	0.1617
Mercury	5261-12-17 21:21 G	3642952.28	3642952.39	3642952.50	0.2675	0.0295
Venus	5269-01-08 03:50 G	3645530.63	3645530.66	3645530.70	0.2698	0.2597
Mercury	5271-06-16 00:43 G	3646419.38	3646419.53	3646419.69	0.2660	0.0140
Mercury	5274-12-20 14:52 G	3647703.02	3647703.12	3647703.22	0.2674	0.1151
Venus	5277-01-05 21:50 G	3648450.27	3648450.41	3648450.55	0.2695	0.1040
Mercury	5287-12-23 08:24 G	3652453.80	3652453.85	3652453.89	0.2675	0.2436
Mercury	5294-12-16 08:09 G	3655003.75	3655003.84	3655003.94	0.2678	0.1423
Mercury	5304-06-14 01:26 G	3658470.48	3658470.56	3658470.63	0.2660	0.2287
Mercury	5307-12-20 02:09 G	3659754.48	3659754.59	3659754.70	0.2675	0.0143
Mercury	5317-06-17 07:26 G	3663221.66	3663221.81	3663221.96	0.2659	0.0633
Mercury	5320-12-21 19:40 G	3664505.22	3664505.32	3664505.41	0.2673	0.1340
Mercury	5327-12-15 18:43 G	3667055.25	3667055.28	3667055.30	0.2681	0.2585
Mercury	5340-12-17 13:11 G	3671805.94	3671806.05	3671806.15	0.2677	0.1016
Mercury	5350-06-15 07:40 G	3675272.71	3675272.82	3675272.94	0.2660	0.1691
Mercury	5353-12-20 06:57 G	3676556.68	3676556.79	3676556.90	0.2675	0.0290

Mercury	5363-06-18 14:09 G	3680023.95	3680024.09	3680024.23	0.2660	0.1054
Mercury	5366-12-23 00:28 G	3681307.43	3681307.52	3681307.60	0.2673	0.1735
Mercury	5373-12-15 23:45 G	3683857.43	3683857.49	3683857.54	0.2680	0.2238
Mercury	5386-12-18 18:00 G	3688608.14	3688608.25	3688608.36	0.2677	0.0794
Mercury	5396-06-15 14:09 G	3692074.95	3692075.09	3692075.22	0.2659	0.1192
Mercury	5399-12-21 11:45 G	3693358.88	3693358.99	3693359.10	0.2674	0.0672
Mercury	5409-06-19 20:52 G	3696826.26	3696826.37	3696826.49	0.2660	0.1753
Mercury	5412-12-24 05:16 G	3698109.64	3698109.72	3698109.79	0.2673	0.1900
Venus	5414-07-07 14:24 G	3698669.94	3698670.10	3698670.26	0.2636	0.0538
Mercury	5419-12-18 04:33 G	3700659.62	3700659.69	3700659.77	0.2678	0.1891
Mercury	5432-12-19 22:48 G	3705410.34	3705410.45	3705410.56	0.2677	0.0440
Mercury	5442-06-17 20:52 G	3708877.22	3708877.37	3708877.51	0.2660	0.0648
Mercury	5445-12-22 16:33 G	3710161.08	3710161.19	3710161.29	0.2673	0.0864
Mercury	5455-06-21 03:21 G	3713628.56	3713628.64	3713628.72	0.2660	0.2230
Mercury	5458-12-25 09:50 G	3714911.86	3714911.91	3714911.97	0.2674	0.2284
Mercury	5465-12-18 09:35 G	3717461.81	3717461.90	3717461.99	0.2678	0.1644
Mercury	5478-12-21 03:35 G	3722212.54	3722212.65	3722212.77	0.2675	0.0192
Mercury	5488-06-18 03:35 G	3725679.50	3725679.65	3725679.80	0.2661	0.0059
Mercury	5491-12-23 21:21 G	3726963.29	3726963.39	3726963.49	0.2672	0.1226
Mercury	5504-12-26 14:38 G	3731714.07	3731714.11	3731714.15	0.2675	0.2457
Mercury	5511-12-20 14:24 G	3734264.01	3734264.10	3734264.20	0.2678	0.1254
Venus	5520-01-09 15:07 G	3737205.99	3737206.13	3737206.26	0.2683	0.1646
Mercury	5521-06-17 03:50 G	3737730.58	3737730.66	3737730.75	0.2659	0.2184
Mercury	5524-12-22 08:24 G	3739014.74	3739014.85	3739014.97	0.2674	0.0116
Mercury	5534-06-20 10:04 G	3742481.77	3742481.92	3742482.07	0.2661	0.0436
Mercury	5537-12-25 02:09 G	3743765.49	3743765.59	3743765.68	0.2673	0.1464
Mercury	5544-12-18 00:57 G	3746315.50	3746315.54	3746315.59	0.2679	0.2423
Mercury	5557-12-20 19:26 G	3751066.21	3751066.31	3751066.41	0.2678	0.1057
Mercury	5567-06-18 10:33 G	3754532.83	3754532.94	3754533.04	0.2660	0.1831
Mercury	5570-12-23 13:11 G	3755816.94	3755817.05	3755817.16	0.2673	0.0455

Mercury	5580-06-20 16:33 G	3759284.06	3759284.19	3759284.33	0.2661	0.1161
Mercury	5583-12-26 06:43 G	3760567.70	3760567.78	3760567.87	0.2673	0.1738
Mercury	5590-12-19 06:00 G	3763117.69	3763117.75	3763117.81	0.2679	0.2225
Mercury	5603-12-22 00:14 G	3767868.40	3767868.51	3767868.62	0.2676	0.0639
Mercury	5613-06-18 17:02 G	3771335.07	3771335.21	3771335.35	0.2661	0.1107
Mercury	5616-12-23 18:00 G	3772619.15	3772619.25	3772619.36	0.2673	0.0659
Mercury	5626-06-21 23:16 G	3776086.34	3776086.47	3776086.59	0.2661	0.1528
Mercury	5629-12-26 11:31 G	3777369.91	3777369.98	3777370.05	0.2673	0.2048
Mercury	5636-12-19 10:48 G	3779919.87	3779919.95	3779920.03	0.2679	0.1814
Mercury	5649-12-22 05:02 G	3784670.60	3784670.71	3784670.82	0.2674	0.0468
Venus	5657-07-08 18:00 G	3787426.10	3787426.25	3787426.40	0.2651	0.0031
Mercury	5659-06-19 23:31 G	3788137.33	3788137.48	3788137.63	0.2662	0.0713
Mercury	5662-12-24 22:48 G	3789421.35	3789421.45	3789421.56	0.2673	0.1040
Mercury	5672-06-22 06:00 G	3792888.68	3792888.75	3792888.82	0.2660	0.2304
Mercury	5675-12-27 16:19 G	3794172.12	3794172.18	3794172.23	0.2673	0.2251
Mercury	5682-12-20 15:50 G	3796722.07	3796722.16	3796722.25	0.2678	0.1582
Mercury	5695-12-23 10:04 G	3801472.80	3801472.92	3801473.03	0.2674	0.0110
Mercury	5705-06-21 06:00 G	3804939.60	3804939.75	3804939.90	0.2661	0.0091
Mercury	5708-12-26 03:35 G	3806223.55	3806223.65	3806223.75	0.2672	0.1198
Mercury	5721-12-28 21:07 G	3810974.36	3810974.38	3810974.39	0.2673	0.2639
Mercury	5728-12-21 20:52 G	3813524.27	3813524.37	3813524.46	0.2676	0.1238
Mercury	5738-06-19 06:43 G	3816990.71	3816990.78	3816990.84	0.2661	0.2372
Mercury	5741-12-24 14:52 G	3818275.01	3818275.12	3818275.23	0.2674	0.0158
Mercury	5751-06-22 12:28 G	3821741.87	3821742.02	3821742.17	0.2661	0.0431
Mercury	5754-12-27 08:24 G	3823025.76	3823025.85	3823025.93	0.2672	0.1590
Venus	5755-01-12 23:31 G	3823042.36	3823042.48	3823042.60	0.2694	0.1569
Mercury	5761-12-20 07:11 G	3825575.76	3825575.80	3825575.84	0.2679	0.2470
Venus	5763-01-10 17:45 G	3825962.11	3825962.24	3825962.36	0.2694	0.1374
Mercury	5774-12-23 01:40 G	3830326.47	3830326.57	3830326.68	0.2675	0.0912
Mercury	5784-06-19 12:57 G	3833792.93	3833793.04	3833793.16	0.2661	0.1709

Mercury	5787-12-25 19:40 G	3835077.21	3835077.32	3835077.43	0.2673	0.0515
Mercury	5797-06-22 19:11 G	3838544.16	3838544.30	3838544.44	0.2662	0.1008
Mercury	5800-12-28 13:11 G	3839827.97	3839828.05	3839828.13	0.2671	0.1772
Mercury	5807-12-22 12:14 G	3842377.94	3842378.01	3842378.08	0.2678	0.2066
Mercury	5820-12-24 06:28 G	3847128.67	3847128.77	3847128.88	0.2676	0.0658
Mercury	5830-06-21 19:26 G	3850595.19	3850595.31	3850595.45	0.2661	0.1328
Mercury	5833-12-27 00:28 G	3851879.41	3851879.52	3851879.62	0.2672	0.0767
Mercury	5843-06-25 01:55 G	3855346.47	3855346.58	3855346.70	0.2662	0.1667
Mercury	5846-12-29 18:00 G	3856630.18	3856630.25	3856630.31	0.2672	0.2144
Mercury	5853-12-22 17:02 G	3859180.14	3859180.21	3859180.29	0.2677	0.1856
Mercury	5866-12-25 11:16 G	3863930.86	3863930.97	3863931.09	0.2675	0.0312
Mercury	5876-06-22 02:09 G	3867397.44	3867397.59	3867397.74	0.2662	0.0593
Mercury	5879-12-28 05:16 G	3868681.61	3868681.72	3868681.82	0.2671	0.1033
Mercury	5889-06-25 08:24 G	3872148.76	3872148.85	3872148.95	0.2662	0.2092
Mercury	5892-12-29 22:33 G	3873432.39	3873432.44	3873432.49	0.2672	0.2367
Mercury	5899-12-23 22:04 G	3875982.33	3875982.42	3875982.51	0.2677	0.1413
Venus	5900-07-11 22:48 G	3876182.29	3876182.45	3876182.62	0.2640	0.0417
Mercury	5912-12-26 16:19 G	3880733.06	3880733.18	3880733.29	0.2674	0.0119
Mercury	5922-06-24 08:52 G	3884199.72	3884199.87	3884200.02	0.2663	0.0218
Mercury	5925-12-29 10:04 G	3885483.82	3885483.92	3885484.01	0.2671	0.1372
Mercury	5932-12-22 08:24 G	3888033.84	3888033.85	3888033.86	0.2678	0.2650
Mercury	5939-01-01 03:21 G	3890234.62	3890234.64	3890234.65	0.2673	0.2637
Mercury	5945-12-25 03:07 G	3892784.53	3892784.63	3892784.72	0.2677	0.1241
Mercury	5955-06-22 09:21 G	3896250.83	3896250.89	3896250.96	0.2661	0.2394
Mercury	5958-12-27 21:07 G	3897535.27	3897535.38	3897535.49	0.2672	0.0323
Mercury	5968-06-24 15:21 G	3901001.99	3901002.14	3901002.29	0.2663	0.0523
Mercury	5971-12-30 14:52 G	3902286.03	3902286.12	3902286.21	0.2671	0.1585
Mercury	5978-12-23 13:26 G	3904836.01	3904836.06	3904836.11	0.2678	0.2374
Mercury	5991-12-26 07:55 G	3909586.72	3909586.83	3909586.94	0.2676	0.0815

7TH MILLENNIUM CE

This is a list of transits visible from Moon in the 7th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	6001-06-22 15:50	G	3913053.05	3913053.16	3913053.27	0.2662	0.1776	
Mercury	6004-12-28 01:55	G	3914337.47	3914337.58	3914337.69	0.2672	0.0489	
Venus	6006-01-12 19:26	G	3914718.20	3914718.31	3914718.43	0.2679	0.1913	
Mercury	6014-06-25 21:50	G	3917804.27	3917804.41	3917804.55	0.2663	0.0900	
Mercury	6017-12-30 19:26	G	3919088.24	3919088.31	3919088.39	0.2671	0.1944	
Mercury	6024-12-23 18:28	G	3921638.20	3921638.27	3921638.34	0.2678	0.2040	
Mercury	6037-12-26 12:43	G	3926388.92	3926389.03	3926389.14	0.2674	0.0601	
Mercury	6047-06-23 22:19	G	3929855.30	3929855.43	3929855.57	0.2663	0.1239	
Mercury	6050-12-29 06:43	G	3931139.68	3931139.78	3931139.89	0.2672	0.0910	
Mercury	6060-06-26 04:19	G	3934606.56	3934606.68	3934606.80	0.2662	0.1588	
Mercury	6064-01-01 00:14	G	3935890.44	3935890.51	3935890.57	0.2671	0.2107	
Mercury	6070-12-24 23:16	G	3938440.39	3938440.47	3938440.56	0.2678	0.1730	
Mercury	6083-12-27 17:45	G	3943191.13	3943191.24	3943191.35	0.2673	0.0248	
Mercury	6093-06-24 04:48	G	3946657.56	3946657.70	3946657.84	0.2664	0.0767	
Mercury	6096-12-29 11:31	G	3947941.88	3947941.98	3947942.08	0.2672	0.1084	
Mercury	6106-06-28 11:02	G	3951408.87	3951408.96	3951409.05	0.2662	0.2104	
Mercury	6110-01-02 04:48	G	3952692.67	3952692.70	3952692.74	0.2671	0.2512	
Mercury	6116-12-26 04:19	G	3955242.59	3955242.68	3955242.77	0.2677	0.1449	
Mercury	6129-12-28 22:33	G	3959993.33	3959993.44	3959993.55	0.2673	0.0069	
Mercury	6139-06-26 11:16	G	3963459.82	3963459.97	3963460.12	0.2663	0.0126	

Mercury	6142-12-31 16:19 G	3964744.08	3964744.18	3964744.27	0.2671	0.1432
Venus	6143-07-13 18:28 G	3964938.12	3964938.27	3964938.42	0.2651	0.0732
Mercury	6162-12-27 09:21 G	3972044.78	3972044.89	3972044.99	0.2675	0.1055
Mercury	6172-06-23 12:14 G	3975510.93	3975511.01	3975511.09	0.2663	0.2250
Mercury	6175-12-30 03:21 G	3976795.53	3976795.64	3976795.76	0.2673	0.0346
Mercury	6185-06-26 18:00 G	3980262.10	3980262.25	3980262.40	0.2663	0.0318
Mercury	6188-12-31 20:52 G	3981546.29	3981546.37	3981546.46	0.2670	0.1679
Mercury	6195-12-25 19:26 G	3984096.26	3984096.31	3984096.37	0.2678	0.2254
Mercury	6208-12-28 14:09 G	3988846.99	3988847.09	3988847.20	0.2674	0.0856
Mercury	6218-06-25 18:43 G	3992313.18	3992313.28	3992313.38	0.2663	0.1932
Mercury	6221-12-31 08:09 G	3993597.73	3993597.84	3993597.95	0.2672	0.0660
Mercury	6231-06-29 00:43 G	3997064.39	3997064.53	3997064.66	0.2663	0.1054
Mercury	6235-01-03 01:55 G	3998348.50	3998348.58	3998348.65	0.2670	0.1969
Venus	6241-01-16 21:35 G	4000554.27	4000554.40	4000554.54	0.2687	0.1421
Mercury	6241-12-27 00:43 G	4000898.45	4000898.53	4000898.60	0.2677	0.2042
Venus	6249-01-14 14:09 G	4003473.99	4003474.09	4003474.19	0.2690	0.2023
Mercury	6254-12-29 19:11 G	4005649.19	4005649.30	4005649.41	0.2675	0.0425
Mercury	6264-06-26 00:57 G	4009115.41	4009115.54	4009115.67	0.2663	0.1218
Mercury	6268-01-01 12:57 G	4010399.93	4010400.04	4010400.15	0.2671	0.0856
Mercury	6277-06-29 07:11 G	4013866.68	4013866.80	4013866.93	0.2664	0.1426
Mercury	6281-01-03 06:43 G	4015150.72	4015150.78	4015150.83	0.2670	0.2280
Mercury	6287-12-28 05:45 G	4017700.65	4017700.74	4017700.82	0.2676	0.1615
Mercury	6300-12-31 00:00 G	4022451.39	4022451.50	4022451.61	0.2674	0.0251
Mercury	6310-06-28 07:40 G	4025917.68	4025917.82	4025917.96	0.2663	0.0801
Mercury	6314-01-02 17:45 G	4027202.14	4027202.24	4027202.34	0.2670	0.1254
Mercury	6323-07-01 13:40 G	4030668.98	4030669.07	4030669.15	0.2664	0.2164
Mercury	6327-01-05 11:16 G	4031952.93	4031952.97	4031953.01	0.2671	0.2492
Mercury	6333-12-29 10:33 G	4034502.85	4034502.94	4034503.04	0.2676	0.1373
Mercury	6347-01-01 04:48 G	4039253.59	4039253.70	4039253.81	0.2673	0.0165
Mercury	6356-06-28 14:09 G	4042719.94	4042720.09	4042720.24	0.2665	0.0169

Mercury	6360-01-03 22:33 G	4044004.35	4044004.44	4044004.54	0.2670	0.1431
Mercury	6366-12-27 20:52 G	4046554.34	4046554.37	4046554.40	0.2677	0.2538
Mercury	6369-07-01 20:09 G	4047471.30	4047471.34	4047471.38	0.2663	0.2546
Mercury	6379-12-30 15:35 G	4051305.04	4051305.15	4051305.25	0.2676	0.1015
Venus	6386-07-16 05:45 G	4053694.58	4053694.74	4053694.89	0.2647	0.0802
Mercury	6389-06-26 15:07 G	4054771.07	4054771.13	4054771.19	0.2663	0.2422
Mercury	6393-01-01 09:35 G	4056055.79	4056055.90	4056056.01	0.2671	0.0370
Mercury	6402-06-29 20:38 G	4059522.21	4059522.36	4059522.51	0.2665	0.0353
Mercury	6406-01-04 03:21 G	4060806.56	4060806.64	4060806.72	0.2670	0.1834
Mercury	6412-12-28 01:55 G	4063356.52	4063356.58	4063356.64	0.2677	0.2269
Mercury	6425-12-30 20:24 G	4068107.24	4068107.35	4068107.46	0.2675	0.0731
Mercury	6435-06-27 21:35 G	4071573.29	4071573.40	4071573.51	0.2664	0.1766
Mercury	6439-01-02 14:38 G	4072858.00	4072858.11	4072858.21	0.2670	0.0735
Mercury	6448-06-30 03:07 G	4076324.49	4076324.63	4076324.77	0.2665	0.0877
Mercury	6452-01-05 08:09 G	4077608.77	4077608.84	4077608.91	0.2670	0.2001
Mercury	6458-12-29 06:57 G	4080158.71	4080158.79	4080158.87	0.2677	0.1859
Mercury	6472-01-01 01:26 G	4084909.44	4084909.56	4084909.67	0.2673	0.0458
Mercury	6481-06-28 04:04 G	4088375.55	4088375.67	4088375.80	0.2665	0.1390
Venus	6484-01-19 09:21 G	4089310.80	4089310.89	4089310.99	0.2686	0.2097
Mercury	6485-01-02 19:26 G	4089660.20	4089660.31	4089660.41	0.2671	0.0980
Venus	6492-01-16 23:02 G	4092230.33	4092230.46	4092230.59	0.2679	0.1631
Mercury	6494-07-01 09:35 G	4093126.78	4093126.90	4093127.03	0.2664	0.1501
Mercury	6498-01-05 12:57 G	4094410.99	4094411.04	4094411.09	0.2669	0.2351
Mercury	6504-12-30 11:45 G	4096960.91	4096960.99	4096961.08	0.2677	0.1662
Mercury	6518-01-02 06:14 G	4101711.65	4101711.76	4101711.87	0.2672	0.0068
Mercury	6527-06-30 10:19 G	4105177.79	4105177.93	4105178.08	0.2665	0.0677
Mercury	6531-01-05 00:14 G	4106462.41	4106462.51	4106462.61	0.2670	0.1281
Mercury	6540-07-02 16:33 G	4109929.09	4109929.19	4109929.29	0.2664	0.1977
Mercury	6544-01-07 17:45 G	4111213.21	4111213.24	4111213.26	0.2669	0.2586
Mercury	6550-12-31 16:48 G	4113763.10	4113763.20	4113763.30	0.2675	0.1226

Mercury	6564-01-03 11:02 G	4118513.85	4118513.96	4118514.08	0.2672	0.0170
Mercury	6573-06-30 16:48 G	4121980.05	4121980.20	4121980.35	0.2665	0.0342
Mercury	6577-01-05 04:48 G	4123264.61	4123264.70	4123264.79	0.2669	0.1587
Mercury	6583-12-30 03:07 G	4125814.58	4125814.63	4125814.67	0.2677	0.2452
Mercury	6596-12-31 21:50 G	4130565.30	4130565.41	4130565.51	0.2674	0.1026
Mercury	6606-06-29 18:00 G	4134031.19	4134031.25	4134031.31	0.2665	0.2438
Mercury	6610-01-04 16:04 G	4135316.06	4135316.17	4135316.28	0.2672	0.0548
Mercury	6619-07-02 23:16 G	4138782.32	4138782.47	4138782.62	0.2665	0.0396
Mercury	6623-01-07 09:35 G	4140066.82	4140066.90	4140066.99	0.2668	0.1790
Venus	6629-07-17 21:07 G	4142450.22	4142450.38	4142450.54	0.2648	0.0594
Mercury	6629-12-31 07:55 G	4142616.77	4142616.83	4142616.90	0.2677	0.2211
Mercury	6643-01-03 02:38 G	4147367.50	4147367.61	4147367.72	0.2673	0.0598
Mercury	6652-06-30 00:14 G	4150833.41	4150833.51	4150833.62	0.2665	0.1860
Mercury	6656-01-05 20:52 G	4152118.26	4152118.37	4152118.48	0.2671	0.0715
Mercury	6665-07-03 06:00 G	4155584.61	4155584.75	4155584.89	0.2665	0.0827
Mercury	6669-01-07 14:24 G	4156869.04	4156869.10	4156869.17	0.2668	0.2185
Mercury	6676-01-01 12:57 G	4159418.96	4159419.04	4159419.12	0.2675	0.1844
Mercury	6689-01-03 07:40 G	4164169.71	4164169.82	4164169.93	0.2673	0.0389
Mercury	6698-07-01 06:43 G	4167635.65	4167635.78	4167635.90	0.2665	0.1358
Mercury	6702-01-07 01:40 G	4168920.47	4168920.57	4168920.67	0.2669	0.1119
Mercury	6711-07-05 12:28 G	4172386.90	4172387.02	4172387.15	0.2666	0.1485
Mercury	6715-01-09 19:11 G	4173671.25	4173671.30	4173671.35	0.2669	0.2361
Mercury	6722-01-02 18:00 G	4176221.16	4176221.25	4176221.35	0.2675	0.1505
Venus	6727-01-21 23:02 G	4178066.32	4178066.46	4178066.60	0.2680	0.1455
Mercury	6735-01-05 12:28 G	4180971.91	4180972.02	4180972.13	0.2673	0.0034
Mercury	6744-07-02 13:11 G	4184437.91	4184438.05	4184438.19	0.2665	0.0834
Mercury	6748-01-08 06:28 G	4185722.67	4185722.77	4185722.87	0.2668	0.1304
Mercury	6757-07-05 18:57 G	4189189.19	4189189.29	4189189.39	0.2666	0.1957
Mercury	6768-01-03 23:02 G	4193023.36	4193023.46	4193023.56	0.2675	0.1239
Mercury	6781-01-05 17:16 G	4197774.11	4197774.22	4197774.34	0.2671	0.0268

Mercury	6790-07-03 19:55 G	4201240.18	4201240.33	4201240.47	0.2666	0.0194
Mercury	6794-01-08 11:16 G	4202524.88	4202524.97	4202525.06	0.2669	0.1684
Mercury	6801-01-01 09:07 G	4205074.85	4205074.88	4205074.92	0.2675	0.2488
Mercury	6803-07-07 01:26 G	4205991.52	4205991.56	4205991.61	0.2665	0.2540
Mercury	6814-01-04 04:04 G	4209825.56	4209825.67	4209825.77	0.2675	0.0861
Mercury	6823-07-01 20:52 G	4213291.30	4213291.37	4213291.44	0.2664	0.2317
Mercury	6827-01-06 22:19 G	4214576.32	4214576.43	4214576.54	0.2670	0.0536
Mercury	6836-07-04 02:09 G	4218042.45	4218042.59	4218042.74	0.2667	0.0217
Mercury	6840-01-09 16:04 G	4219327.09	4219327.17	4219327.25	0.2669	0.1907
Mercury	6847-01-02 14:09 G	4221877.02	4221877.09	4221877.17	0.2675	0.2037
Mercury	6860-01-05 08:52 G	4226627.76	4226627.87	4226627.98	0.2674	0.0644
Mercury	6869-07-02 03:21 G	4230093.54	4230093.64	4230093.74	0.2666	0.1969
Venus	6872-07-19 08:38 G	4231206.70	4231206.86	4231207.01	0.2655	0.0237
Mercury	6873-01-07 03:07 G	4231378.52	4231378.63	4231378.74	0.2669	0.0890
Mercury	6882-07-05 08:38 G	4234844.72	4234844.86	4234845.00	0.2666	0.0919
Mercury	6886-01-09 20:38 G	4236129.30	4236129.36	4236129.43	0.2668	0.2202
Mercury	6893-01-02 19:11 G	4238679.22	4238679.30	4238679.38	0.2676	0.1844
Mercury	6906-01-06 13:55 G	4243429.96	4243430.08	4243430.19	0.2672	0.0231
Mercury	6915-07-04 09:50 G	4246895.78	4246895.91	4246896.04	0.2667	0.1283
Mercury	6919-01-09 07:55 G	4248180.73	4248180.83	4248180.93	0.2669	0.1106
Mercury	6928-07-06 15:07 G	4251647.00	4251647.13	4251647.26	0.2666	0.1293
Mercury	6932-01-12 01:26 G	4252931.53	4252931.56	4252931.60	0.2668	0.2502
Mercury	6939-01-05 00:14 G	4255481.41	4255481.51	4255481.60	0.2675	0.1414
Mercury	6952-01-07 18:43 G	4260232.17	4260232.28	4260232.40	0.2671	0.0077
Mercury	6961-07-04 16:04 G	4263698.03	4263698.17	4263698.31	0.2667	0.0903
Mercury	6965-01-09 12:43 G	4264982.94	4264983.03	4264983.12	0.2669	0.1485
Venus	6970-01-23 07:26 G	4266822.69	4266822.81	4266822.93	0.2687	0.1620
Mercury	6974-07-07 21:50 G	4268449.32	4268449.41	4268449.50	0.2666	0.2042
Venus	6978-01-21 00:14 G	4269742.38	4269742.51	4269742.64	0.2681	0.1460
Mercury	6985-01-05 05:16 G	4272283.62	4272283.72	4272283.82	0.2674	0.1176

Mercury 6998-01-07 23:45 G 4277034.38 4277034.49 4277034.60 0.2671 0.0408

8TH MILLENNIUM CE

This is a list of transits visible from Moon in the 8th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	7007-07-06 22:19	G	4280500.29	4280500.43	4280500.58	0.2667	0.0273	
Mercury	7011-01-11 17:31	G	4281785.14	4281785.23	4281785.32	0.2668	0.1652	
Mercury	7018-01-04 15:21	G	4284335.09	4284335.14	4284335.19	0.2676	0.2357	
Mercury	7020-07-09 04:19	G	4285251.63	4285251.68	4285251.74	0.2666	0.2448	
Mercury	7031-01-07 10:19	G	4289085.82	4289085.93	4289086.03	0.2673	0.0815	
Mercury	7040-07-03 23:45	G	4292551.45	4292551.49	4292551.54	0.2667	0.2496	
Mercury	7044-01-10 04:33	G	4293836.58	4293836.69	4293836.80	0.2671	0.0583	
Mercury	7053-07-07 05:02	G	4297302.56	4297302.71	4297302.86	0.2667	0.0250	
Mercury	7057-01-11 22:19	G	4298587.36	4298587.43	4298587.50	0.2667	0.2057	
Mercury	7064-01-05 20:23	G	4301137.28	4301137.35	4301137.42	0.2675	0.2076	
Mercury	7077-01-07 15:07	G	4305888.02	4305888.13	4305888.24	0.2672	0.0502	
Mercury	7086-07-05 06:00	G	4309353.65	4309353.75	4309353.86	0.2666	0.1848	
Mercury	7090-01-10 09:21	G	4310638.78	4310638.89	4310638.99	0.2669	0.0957	
Mercury	7099-07-08 11:45	G	4314104.84	4314104.99	4314105.13	0.2667	0.0792	
Mercury	7103-01-14 03:07	G	4315389.57	4315389.63	4315389.69	0.2667	0.2233	
Mercury	7110-01-07 01:26	G	4317939.47	4317939.56	4317939.65	0.2674	0.1668	
Venus	7115-07-23 02:23	G	4319962.44	4319962.60	4319962.77	0.2646	0.0058	
Mercury	7123-01-09 20:09	G	4322690.22	4322690.34	4322690.45	0.2672	0.0228	

Mercury	7132-07-06 12:28 G	4326155.90	4326156.02	4326156.14	0.2666	0.1480
Mercury	7136-01-12 14:09 G	4327440.99	4327441.09	4327441.19	0.2668	0.1204
Mercury	7145-07-09 18:00 G	4330907.13	4330907.25	4330907.38	0.2668	0.1424
Mercury	7149-01-14 07:55 G	4332191.81	4332191.83	4332191.85	0.2667	0.2615
Mercury	7156-01-08 06:28 G	4334741.68	4334741.77	4334741.87	0.2674	0.1444
Mercury	7169-01-10 00:57 G	4339492.43	4339492.54	4339492.65	0.2672	0.0134
Mercury	7178-07-07 18:57 G	4342958.15	4342958.29	4342958.43	0.2667	0.0756
Mercury	7182-01-12 18:57 G	4344243.20	4344243.29	4344243.38	0.2667	0.1495
Mercury	7191-07-11 00:28 G	4347709.41	4347709.52	4347709.62	0.2667	0.1822
Mercury	7202-01-08 11:31 G	4351543.87	4351543.98	4351544.08	0.2674	0.1002
Venus	7213-01-25 03:50 G	4355578.51	4355578.66	4355578.81	0.2674	0.1174
Mercury	7215-01-11 05:45 G	4356294.63	4356294.74	4356294.86	0.2670	0.0362
Mercury	7224-07-08 01:26 G	4359760.42	4359760.56	4359760.71	0.2668	0.0400
Mercury	7228-01-13 23:45 G	4361045.41	4361045.49	4361045.58	0.2667	0.1828
Mercury	7235-01-06 21:36 G	4363595.34	4363595.40	4363595.46	0.2674	0.2253
Mercury	7237-07-11 06:57 G	4364511.75	4364511.79	4364511.83	0.2667	0.2536
Mercury	7248-01-09 16:19 G	4368346.07	4368346.18	4368346.29	0.2674	0.0824
Mercury	7257-07-06 02:52 G	4371811.57	4371811.62	4371811.67	0.2666	0.2499
Mercury	7261-01-11 10:48 G	4373096.84	4373096.95	4373097.05	0.2668	0.0771
Mercury	7270-07-09 07:40 G	4376562.68	4376562.82	4376562.97	0.2668	0.0317
Mercury	7274-01-14 04:33 G	4377847.62	4377847.69	4377847.76	0.2667	0.2054
Mercury	7281-01-07 02:38 G	4380397.54	4380397.61	4380397.68	0.2674	0.1987
Mercury	7294-01-09 21:21 G	4385148.28	4385148.39	4385148.50	0.2672	0.0395
Mercury	7303-07-08 09:07 G	4388613.78	4388613.88	4388613.98	0.2668	0.1923
Mercury	7307-01-13 15:36 G	4389899.05	4389899.15	4389899.26	0.2668	0.0942
Mercury	7316-07-10 14:09 G	4393364.94	4393365.09	4393365.23	0.2668	0.0674
Mercury	7320-01-16 09:21 G	4394649.84	4394649.89	4394649.94	0.2667	0.2409
Mercury	7327-01-09 07:40 G	4397199.73	4397199.82	4397199.91	0.2674	0.1631
Mercury	7340-01-12 02:23 G	4401950.48	4401950.60	4401950.71	0.2670	0.0195
Mercury	7349-07-08 15:36 G	4405416.02	4405416.15	4405416.27	0.2669	0.1375

Mercury	7353-01-13 20:23 G	4406701.26	4406701.35	4406701.45	0.2668	0.1369
Venus	7358-07-24 08:38 G	4408718.71	4408718.86	4408719.01	0.2660	0.0250
Mercury	7362-07-11 20:38 G	4410167.23	4410167.36	4410167.49	0.2668	0.1347
Mercury	7366-01-16 14:09 G	4411452.06	4411452.09	4411452.11	0.2666	0.2575
Mercury	7373-01-09 12:28 G	4414001.92	4414002.02	4414002.12	0.2674	0.1327
Mercury	7386-01-12 07:11 G	4418752.69	4418752.80	4418752.91	0.2670	0.0205
Mercury	7395-07-09 21:50 G	4422218.27	4422218.41	4422218.55	0.2669	0.0930
Mercury	7399-01-15 01:26 G	4423503.46	4423503.56	4423503.65	0.2668	0.1542
Mercury	7406-01-08 22:33 G	4426053.41	4426053.44	4426053.48	0.2674	0.2504
Mercury	7408-07-13 03:21 G	4426969.54	4426969.64	4426969.75	0.2668	0.1882
Mercury	7419-01-11 17:31 G	4430804.13	4430804.23	4430804.34	0.2673	0.1031
Mercury	7432-01-14 12:14 G	4435554.90	4435555.01	4435555.12	0.2670	0.0484
Mercury	7441-07-11 04:04 G	4439020.53	4439020.67	4439020.82	0.2668	0.0310
Mercury	7445-01-16 06:00 G	4440305.67	4440305.75	4440305.83	0.2666	0.1900
Mercury	7452-01-10 03:36 G	4442855.60	4442855.65	4442855.71	0.2674	0.2298
Mercury	7454-07-14 09:50 G	4443771.85	4443771.91	4443771.97	0.2668	0.2417
Venus	7456-01-28 03:36 G	4444334.52	4444334.65	4444334.78	0.2685	0.1309
Venus	7464-01-25 22:33 G	4447254.36	4447254.44	4447254.52	0.2683	0.2249
Mercury	7465-01-11 22:33 G	4447606.33	4447606.44	4447606.55	0.2671	0.0633
Mercury	7474-07-09 05:45 G	4451071.68	4451071.74	4451071.81	0.2668	0.2370
Mercury	7478-01-14 17:02 G	4452357.10	4452357.21	4452357.32	0.2670	0.0781
Mercury	7487-07-12 10:48 G	4455822.80	4455822.95	4455823.09	0.2668	0.0133
Mercury	7491-01-17 10:48 G	4457107.89	4457107.95	4457108.02	0.2666	0.2138
Mercury	7498-01-10 08:38 G	4459657.78	4459657.86	4459657.94	0.2674	0.1850
Mercury	7511-01-14 03:36 G	4464408.54	4464408.65	4464408.76	0.2671	0.0420
Mercury	7520-07-10 12:00 G	4467873.91	4467874.00	4467874.10	0.2668	0.2055
Mercury	7524-01-16 21:50 G	4469159.31	4469159.41	4469159.51	0.2668	0.1103
Mercury	7533-07-13 17:16 G	4472625.08	4472625.22	4472625.36	0.2669	0.0845
Mercury	7537-01-18 15:36 G	4473910.11	4473910.15	4473910.20	0.2666	0.2451
Mercury	7544-01-12 13:40 G	4476459.98	4476460.07	4476460.16	0.2673	0.1629

Mercury	7557-01-14 08:23 G	4481210.74	4481210.85	4481210.97	0.2671	0.0110
Mercury	7566-07-11 18:14 G	4484676.14	4484676.26	4484676.39	0.2668	0.1367
Mercury	7570-01-17 02:38 G	4485961.51	4485961.61	4485961.71	0.2667	0.1320
Mercury	7579-07-14 23:45 G	4489427.36	4489427.49	4489427.62	0.2669	0.1192
Mercury	7590-01-12 18:43 G	4493262.18	4493262.28	4493262.39	0.2672	0.1200
Venus	7601-07-26 09:07 G	4497474.71	4497474.88	4497475.05	0.2648	0.0049
Mercury	7603-01-15 13:26 G	4498012.95	4498013.06	4498013.17	0.2671	0.0189
Mercury	7612-07-12 00:57 G	4501478.40	4501478.54	4501478.67	0.2669	0.0947
Mercury	7616-01-18 07:26 G	4502763.73	4502763.81	4502763.90	0.2666	0.1729
Mercury	7623-01-11 04:33 G	4505313.66	4505313.69	4505313.73	0.2673	0.2489
Mercury	7625-07-15 06:00 G	4506229.65	4506229.75	4506229.85	0.2669	0.1907
Mercury	7636-01-13 23:45 G	4510064.39	4510064.49	4510064.60	0.2672	0.0966
Mercury	7649-01-15 18:14 G	4514815.15	4514815.26	4514815.37	0.2669	0.0615
Mercury	7658-07-13 07:11 G	4518280.66	4518280.80	4518280.95	0.2670	0.0355
Mercury	7662-01-18 12:28 G	4519565.94	4519566.02	4519566.10	0.2666	0.1903
Mercury	7669-01-11 09:50 G	4522115.84	4522115.91	4522115.98	0.2673	0.2141
Mercury	7671-07-16 12:28 G	4523031.95	4523032.02	4523032.09	0.2668	0.2294
Mercury	7682-01-14 04:48 G	4526866.59	4526866.70	4526866.81	0.2672	0.0584
Mercury	7691-07-11 08:52 G	4530331.83	4530331.87	4530331.92	0.2668	0.2519
Mercury	7695-01-16 23:16 G	4531617.36	4531617.47	4531617.58	0.2667	0.0816
Venus	7699-01-29 09:36 G	4533090.75	4533090.90	4533091.05	0.2673	0.1162
Mercury	7704-07-14 13:40 G	4535082.92	4535083.07	4535083.22	0.2670	0.0173
Venus	7707-01-27 19:40 G	4536010.31	4536010.32	4536010.33	0.2669	0.2660
Mercury	7708-01-20 17:16 G	4536368.16	4536368.22	4536368.27	0.2666	0.2307
Mercury	7715-01-13 14:52 G	4538918.04	4538918.12	4538918.20	0.2673	0.1860
Mercury	7728-01-16 09:36 G	4543668.79	4543668.90	4543669.02	0.2671	0.0320
Mercury	7737-07-12 15:21 G	4547134.03	4547134.14	4547134.24	0.2669	0.1874
Mercury	7741-01-18 04:04 G	4548419.57	4548419.67	4548419.77	0.2667	0.1202
Mercury	7750-07-15 19:55 G	4551885.19	4551885.33	4551885.47	0.2670	0.0673
Mercury	7754-01-20 21:50 G	4553170.38	4553170.41	4553170.45	0.2665	0.2477

Mercury	7761-01-13 19:55 G	4555720.23	4555720.33	4555720.42	0.2673	0.1461
Mercury	7774-01-16 14:38 G	4560471.00	4560471.11	4560471.23	0.2669	0.0055
Mercury	7783-07-13 21:36 G	4563936.28	4563936.40	4563936.52	0.2670	0.1536
Mercury	7787-01-19 08:52 G	4565221.78	4565221.87	4565221.97	0.2667	0.1444
Mercury	7796-07-16 02:23 G	4568687.48	4568687.60	4568687.73	0.2669	0.1297
Mercury	7807-01-16 00:57 G	4572522.44	4572522.54	4572522.64	0.2673	0.1244
Mercury	7820-01-18 19:40 G	4577273.21	4577273.32	4577273.43	0.2669	0.0377
Mercury	7829-07-15 03:50 G	4580738.52	4580738.66	4580738.79	0.2670	0.0841
Mercury	7833-01-20 13:55 G	4582023.99	4582024.08	4582024.16	0.2666	0.1753
Venus	7836-07-30 13:11 G	4583311.00	4583311.05	4583311.10	0.2657	0.2512
Mercury	7840-01-14 11:02 G	4584573.92	4584573.96	4584574.00	0.2673	0.2479
Mercury	7842-07-18 09:07 G	4585489.77	4585489.88	4585489.99	0.2669	0.1731
Venus	7844-07-28 07:40 G	4586230.67	4586230.82	4586230.97	0.2662	0.0328
Mercury	7853-01-16 06:00 G	4589324.64	4589324.75	4589324.86	0.2671	0.0796
Mercury	7866-01-19 00:28 G	4594075.41	4594075.52	4594075.64	0.2669	0.0605
Mercury	7875-07-16 10:04 G	4597540.78	4597540.92	4597541.07	0.2670	0.0498
Mercury	7879-01-21 18:28 G	4598826.20	4598826.27	4598826.34	0.2665	0.2058
Mercury	7886-01-14 15:50 G	4601376.09	4601376.16	4601376.23	0.2673	0.2044
Mercury	7888-07-18 15:36 G	4602292.09	4602292.15	4602292.20	0.2669	0.2453
Mercury	7899-01-17 11:02 G	4606126.85	4606126.96	4606127.07	0.2670	0.0588
Mercury	7908-07-14 12:00 G	4609591.96	4609592.00	4609592.04	0.2670	0.2529
Mercury	7912-01-21 05:31 G	4610877.62	4610877.73	4610877.83	0.2668	0.1003
Mercury	7921-07-17 16:33 G	4614343.04	4614343.19	4614343.34	0.2670	0.0215
Mercury	7925-01-22 23:31 G	4615628.42	4615628.48	4615628.53	0.2664	0.2283
Mercury	7932-01-16 20:52 G	4618178.29	4618178.37	4618178.46	0.2672	0.1806
Venus	7942-02-01 01:26 G	4621846.41	4621846.56	4621846.71	0.2679	0.0601
Mercury	7945-01-18 16:04 G	4622929.05	4622929.17	4622929.28	0.2670	0.0184
Mercury	7954-07-15 18:14 G	4626394.16	4626394.26	4626394.36	0.2670	0.1969
Mercury	7958-01-21 10:19 G	4627679.83	4627679.93	4627680.03	0.2667	0.1181
Mercury	7967-07-18 23:02 G	4631145.32	4631145.46	4631145.61	0.2671	0.0645

Mercury	7978-01-17 02:09 G	4634980.49	4634980.59	4634980.68	0.2671	0.1420
Mercury	7991-01-19 20:52 G	4639731.26	4639731.37	4639731.48	0.2670	0.0055
Mercury	8000-07-16 00:28 G	4643196.40	4643196.52	4643196.65	0.2670	0.1455

9TH MILLENNIUM CE

This is a list of transits visible from Moon in the 9th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	8004-01-22 15:07 G		4644482.04	4644482.13	4644482.22	0.2665	0.1594	
Mercury	8013-07-19 05:31 G		4647947.60	4647947.73	4647947.86	0.2671	0.1260	
Mercury	8024-01-18 07:11 G		4651782.69	4651782.80	4651782.90	0.2671	0.1083	
Mercury	8037-01-20 01:55 G		4656533.46	4656533.58	4656533.69	0.2669	0.0453	
Mercury	8046-07-17 06:57 G		4659998.66	4659998.79	4659998.93	0.2671	0.0972	
Mercury	8050-01-22 20:09 G		4661284.25	4661284.34	4661284.42	0.2665	0.1780	
Mercury	8057-01-15 17:02 G		4663834.15	4663834.21	4663834.26	0.2671	0.2317	
Mercury	8059-07-20 11:45 G		4664749.88	4664749.99	4664750.10	0.2671	0.1743	
Mercury	8070-01-18 12:14 G		4668584.90	4668585.01	4668585.11	0.2671	0.0806	
Mercury	8083-01-21 06:43 G		4673335.67	4673335.78	4673335.89	0.2667	0.0712	
Venus	8087-07-30 15:36 G		4674986.99	4674987.15	4674987.32	0.2653	0.0169	
Mercury	8092-07-17 13:11 G		4676800.91	4676801.05	4676801.20	0.2672	0.0338	
Mercury	8096-01-24 00:57 G		4678086.48	4678086.54	4678086.60	0.2665	0.2178	
Mercury	8103-01-17 22:04 G		4680636.35	4680636.42	4680636.49	0.2671	0.2070	
Mercury	8105-07-21 18:14 G		4681552.19	4681552.26	4681552.34	0.2670	0.2291	
Mercury	8116-01-20 17:02 G		4685387.10	4685387.21	4685387.32	0.2671	0.0427	

Mercury	8125-07-16 15:07 G	4688852.07	4688852.13	4688852.19	0.2670	0.2400
Mercury	8129-01-22 11:45 G	4690137.88	4690137.99	4690138.09	0.2666	0.1007
Mercury	8138-07-19 19:40 G	4693603.17	4693603.32	4693603.46	0.2672	0.0045
Mercury	8142-01-25 05:45 G	4694888.69	4694888.74	4694888.79	0.2665	0.2388
Mercury	8149-01-18 03:07 G	4697438.54	4697438.63	4697438.72	0.2672	0.1612
Mercury	8162-01-20 22:04 G	4702189.31	4702189.42	4702189.53	0.2670	0.0193
Mercury	8171-07-17 21:36 G	4705654.31	4705654.40	4705654.49	0.2671	0.2059
Mercury	8175-01-23 16:33 G	4706940.10	4706940.19	4706940.29	0.2666	0.1359
Mercury	8184-07-20 01:55 G	4710405.44	4710405.58	4710405.72	0.2671	0.0726
Venus	8185-02-02 13:11 G	4710602.92	4710603.05	4710603.18	0.2674	0.1573
Venus	8193-01-31 01:55 G	4713522.49	4713522.58	4713522.67	0.2668	0.2223
Mercury	8195-01-19 08:09 G	4714240.75	4714240.84	4714240.94	0.2672	0.1421
Mercury	8208-01-23 03:07 G	4718991.52	4718991.63	4718991.74	0.2668	0.0247
Mercury	8217-07-19 03:36 G	4722456.53	4722456.65	4722456.78	0.2672	0.1406
Mercury	8221-01-24 21:36 G	4723742.31	4723742.40	4723742.49	0.2666	0.1594
Mercury	8228-01-18 18:00 G	4726292.24	4726292.25	4726292.27	0.2671	0.2631
Mercury	8230-07-22 08:23 G	4727207.72	4727207.85	4727207.98	0.2671	0.1105
Mercury	8241-01-20 13:11 G	4731042.94	4731043.05	4731043.15	0.2671	0.0978
Mercury	8254-01-23 08:09 G	4735793.73	4735793.84	4735793.95	0.2667	0.0432
Mercury	8263-07-20 09:50 G	4739258.78	4739258.91	4739259.05	0.2672	0.1024
Mercury	8267-01-26 02:23 G	4740544.52	4740544.60	4740544.67	0.2665	0.1971
Mercury	8274-01-18 23:02 G	4743094.40	4743094.46	4743094.52	0.2671	0.2268
Mercury	8276-07-22 14:52 G	4744010.02	4744010.12	4744010.23	0.2671	0.1826
Mercury	8287-01-21 18:14 G	4747845.15	4747845.26	4747845.37	0.2670	0.0739
Mercury	8300-01-24 12:57 G	4752595.94	4752596.04	4752596.15	0.2668	0.0873
Mercury	8309-07-21 16:19 G	4756061.03	4756061.18	4756061.32	0.2671	0.0408
Mercury	8313-01-27 07:11 G	4757346.73	4757346.80	4757346.86	0.2664	0.2142
Mercury	8320-01-21 04:04 G	4759896.60	4759896.67	4759896.75	0.2671	0.1946
Mercury	8322-07-24 21:21 G	4760812.31	4760812.39	4760812.47	0.2671	0.2224
Venus	8330-08-02 07:40 G	4763742.67	4763742.82	4763742.97	0.2661	0.0589

Mercury	8333-01-22 23:16 G	4764647.36	4764647.47	4764647.59	0.2669	0.0361
Mercury	8342-07-19 18:28 G	4768112.23	4768112.27	4768112.30	0.2671	0.2568
Mercury	8346-01-25 18:00 G	4769398.14	4769398.25	4769398.35	0.2667	0.1053
Mercury	8355-07-22 22:48 G	4772863.30	4772863.45	4772863.59	0.2672	0.0116
Mercury	8359-01-28 12:00 G	4774148.97	4774149.00	4774149.03	0.2663	0.2557
Mercury	8366-01-21 09:07 G	4776698.80	4776698.88	4776698.97	0.2671	0.1646
Mercury	8379-01-24 04:19 G	4781449.57	4781449.68	4781449.80	0.2669	0.0065
Mercury	8388-07-20 00:28 G	4784914.42	4784914.52	4784914.62	0.2671	0.1929
Mercury	8392-01-26 22:48 G	4786200.35	4786200.45	4786200.54	0.2666	0.1440
Mercury	8401-07-23 05:16 G	4789665.58	4789665.72	4789665.86	0.2672	0.0609
Mercury	8412-01-22 14:23 G	4793501.00	4793501.10	4793501.20	0.2670	0.1233
Mercury	8425-01-24 09:21 G	4798251.77	4798251.89	4798252.00	0.2669	0.0259
Venus	8428-02-05 02:38 G	4799358.45	4799358.61	4799358.77	0.2672	0.0131
Mercury	8434-07-21 06:57 G	4801716.67	4801716.79	4801716.90	0.2671	0.1572
Mercury	8438-01-27 03:36 G	4803002.57	4803002.65	4803002.74	0.2664	0.1689
Mercury	8445-01-20 00:00 G	4805552.46	4805552.50	4805552.54	0.2670	0.2488
Mercury	8447-07-24 11:31 G	4806467.85	4806467.98	4806468.11	0.2673	0.1234
Mercury	8458-01-22 19:26 G	4810303.21	4810303.31	4810303.42	0.2670	0.1002
Mercury	8471-01-25 14:09 G	4815053.98	4815054.09	4815054.20	0.2668	0.0598
Mercury	8480-07-21 13:11 G	4818518.91	4818519.05	4818519.19	0.2672	0.0867
Mercury	8484-01-28 08:38 G	4819804.78	4819804.86	4819804.93	0.2664	0.2002
Mercury	8491-01-21 05:16 G	4822354.66	4822354.72	4822354.77	0.2670	0.2265
Mercury	8493-07-24 17:45 G	4823270.12	4823270.24	4823270.36	0.2672	0.1615
Mercury	8504-01-25 00:28 G	4827105.41	4827105.52	4827105.63	0.2670	0.0556
Mercury	8517-01-26 19:11 G	4831856.19	4831856.30	4831856.41	0.2666	0.0829
Mercury	8526-07-23 19:26 G	4835321.17	4835321.31	4835321.46	0.2673	0.0535
Mercury	8530-01-29 13:26 G	4836607.01	4836607.06	4836607.11	0.2664	0.2318
Mercury	8537-01-22 10:19 G	4839156.85	4839156.93	4839157.01	0.2670	0.1820
Mercury	8539-07-27 00:14 G	4840072.44	4840072.51	4840072.58	0.2671	0.2319
Mercury	8550-01-25 05:31 G	4843907.61	4843907.73	4843907.84	0.2670	0.0379

Mercury	8559-07-21 21:36 G	4847372.36	4847372.40	4847372.45	0.2671	0.2529
Mercury	8563-01-28 00:00 G	4848658.40	4848658.50	4848658.60	0.2665	0.1260
Mercury	8572-07-24 01:40 G	4852123.43	4852123.57	4852123.72	0.2673	0.0154
Venus	8573-08-03 18:57 G	4852499.13	4852499.29	4852499.45	0.2662	0.0029
Mercury	8576-01-30 18:14 G	4853409.23	4853409.26	4853409.29	0.2664	0.2561
Mercury	8583-01-23 15:21 G	4855959.05	4855959.14	4855959.23	0.2670	0.1563
Mercury	8596-01-26 10:19 G	4860709.82	4860709.93	4860710.05	0.2669	0.0103
Mercury	8605-07-23 04:04 G	4864174.57	4864174.67	4864174.76	0.2673	0.1992
Mercury	8609-01-29 05:02 G	4865460.62	4865460.71	4865460.81	0.2665	0.1432
Mercury	8618-07-26 08:09 G	4868925.69	4868925.84	4868925.98	0.2673	0.0541
Mercury	8629-01-24 20:23 G	4872761.25	4872761.35	4872761.45	0.2671	0.1188
Mercury	8642-01-27 15:21 G	4877512.03	4877512.14	4877512.26	0.2667	0.0311
Mercury	8651-07-24 10:04 G	4880976.80	4880976.92	4880977.04	0.2673	0.1461
Mercury	8655-01-30 09:50 G	4882262.83	4882262.91	4882262.99	0.2665	0.1866
Mercury	8662-01-23 06:14 G	4884812.72	4884812.76	4884812.80	0.2669	0.2497
Mercury	8664-07-26 14:38 G	4885727.98	4885728.11	4885728.24	0.2672	0.1177
Venus	8671-02-07 14:09 G	4888114.97	4888115.09	4888115.21	0.2676	0.1557
Mercury	8675-01-26 01:26 G	4889563.45	4889563.56	4889563.67	0.2670	0.0888
Venus	8679-02-05 06:00 G	4891034.72	4891034.75	4891034.78	0.2669	0.2600
Mercury	8688-01-28 20:23 G	4894314.24	4894314.35	4894314.46	0.2666	0.0687
Mercury	8697-07-24 16:19 G	4897779.04	4897779.18	4897779.31	0.2673	0.1043
Mercury	8701-01-31 14:52 G	4899065.04	4899065.12	4899065.19	0.2664	0.2035
Mercury	8708-01-25 11:16 G	4901614.90	4901614.97	4901615.04	0.2670	0.2080
Mercury	8710-07-28 20:52 G	4902530.26	4902530.37	4902530.49	0.2673	0.1701
Mercury	8721-01-27 06:28 G	4906365.66	4906365.77	4906365.88	0.2669	0.0573
Mercury	8734-01-30 01:26 G	4911116.45	4911116.56	4911116.67	0.2667	0.0953
Mercury	8743-07-26 22:33 G	4914581.30	4914581.44	4914581.58	0.2673	0.0412
Mercury	8747-02-01 19:40 G	4915867.27	4915867.32	4915867.36	0.2662	0.2412
Mercury	8754-01-25 16:19 G	4918417.10	4918417.18	4918417.26	0.2670	0.1863
Mercury	8756-07-29 03:21 G	4919332.56	4919332.64	4919332.72	0.2673	0.2196

Mercury	8767-01-28 11:31 G	4923167.87	4923167.98	4923168.10	0.2668	0.0186
Mercury	8776-07-24 00:43 G	4926632.47	4926632.53	4926632.59	0.2673	0.2420
Mercury	8780-01-31 06:14 G	4927918.66	4927918.76	4927918.86	0.2666	0.1276
Mercury	8789-07-27 05:02 G	4931383.56	4931383.71	4931383.85	0.2673	0.0056
Mercury	8793-02-02 00:28 G	4932669.51	4932669.52	4932669.53	0.2662	0.2646
Mercury	8800-01-26 21:21 G	4935219.29	4935219.39	4935219.49	0.2670	0.1411
Mercury	8813-01-28 16:33 G	4939970.08	4939970.19	4939970.31	0.2668	0.0106
Venus	8816-08-05 10:19 G	4941254.78	4941254.93	4941255.08	0.2658	0.1194
Mercury	8822-07-25 06:57 G	4943434.70	4943434.79	4943434.88	0.2672	0.2114
Mercury	8826-01-31 11:16 G	4944720.88	4944720.97	4944721.06	0.2664	0.1602
Mercury	8835-07-28 11:16 G	4948185.83	4948185.97	4948186.11	0.2674	0.0693
Mercury	8846-01-27 02:38 G	4952021.50	4952021.61	4952021.71	0.2669	0.1183
Mercury	8859-01-29 21:36 G	4956772.29	4956772.40	4956772.51	0.2668	0.0482
Mercury	8868-07-25 13:11 G	4960236.93	4960237.05	4960237.17	0.2673	0.1442
Mercury	8872-02-01 16:04 G	4961523.09	4961523.17	4961523.25	0.2663	0.1825
Mercury	8879-01-25 12:14 G	4964072.96	4964073.01	4964073.05	0.2669	0.2446
Mercury	8881-07-28 17:31 G	4964988.10	4964988.23	4964988.37	0.2674	0.1013
Mercury	8892-01-28 07:40 G	4968823.71	4968823.82	4968823.93	0.2669	0.0736
Mercury	8905-01-31 02:38 G	4973574.50	4973574.61	4973574.72	0.2667	0.0673
Venus	8914-02-09 06:43 G	4976870.62	4976870.78	4976870.95	0.2665	0.0086
Mercury	8914-07-27 19:40 G	4977039.19	4977039.32	4977039.45	0.2674	0.1011
Mercury	8918-02-02 20:52 G	4978325.32	4978325.37	4978325.44	0.2662	0.2239
Mercury	8925-01-26 17:16 G	4980875.15	4980875.22	4980875.29	0.2669	0.2050
Mercury	8927-07-30 23:45 G	4981790.38	4981790.49	4981790.60	0.2674	0.1721
Mercury	8938-01-29 12:43 G	4985625.92	4985626.03	4985626.14	0.2669	0.0511
Mercury	8951-02-01 07:26 G	4990376.71	4990376.81	4990376.92	0.2665	0.1107
Mercury	8960-07-28 01:55 G	4993841.44	4993841.58	4993841.72	0.2675	0.0459
Mercury	8964-02-04 01:55 G	4995127.53	4995127.58	4995127.62	0.2663	0.2415
Mercury	8971-01-27 22:33 G	4997677.35	4997677.44	4997677.52	0.2669	0.1709
Mercury	8973-07-31 06:14 G	4998592.68	4998592.76	4998592.85	0.2673	0.2123

Mercury	8984-01-30 17:45 G	5002428.12	5002428.24	5002428.35	0.2669	0.0143
Mercury	8993-07-26 04:19 G	5005892.64	5005892.68	5005892.71	0.2673	0.2567
Mercury	8997-02-01 12:28 G	5007178.92	5007179.02	5007179.12	0.2664	0.1307

10TH MILLENNIUM CE

This is a list of transits visible from Moon in the 10th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	9006-07-30 07:55 G		5010643.69	5010643.83	5010643.98	0.2675	0.0089	
Mercury	9017-01-29 03:36 G		5014479.55	5014479.65	5014479.75	0.2669	0.1409	
Mercury	9030-01-31 22:48 G		5019230.33	5019230.45	5019230.56	0.2667	0.0192	
Mercury	9039-07-28 10:19 G		5022694.84	5022694.93	5022695.03	0.2674	0.1921	
Mercury	9043-02-03 17:31 G		5023981.14	5023981.23	5023981.31	0.2664	0.1708	
Mercury	9052-07-30 14:09 G		5027445.95	5027446.09	5027446.24	0.2674	0.0519	
Venus	9059-08-08 18:28 G		5030011.12	5030011.27	5030011.42	0.2669	0.0084	
Mercury	9063-01-30 08:38 G		5031281.75	5031281.86	5031281.96	0.2670	0.1014	
Mercury	9076-02-02 03:50 G		5036032.54	5036032.66	5036032.77	0.2666	0.0488	
Mercury	9085-07-28 16:33 G		5039497.08	5039497.19	5039497.30	0.2675	0.1609	
Mercury	9089-02-03 22:19 G		5040783.35	5040783.43	5040783.51	0.2664	0.1937	
Mercury	9096-01-28 18:14 G		5043333.20	5043333.26	5043333.32	0.2668	0.2254	
Mercury	9098-07-31 20:38 G		5044248.23	5044248.36	5044248.49	0.2674	0.1153	
Mercury	9109-01-31 13:40 G		5048083.96	5048084.07	5048084.18	0.2669	0.0778	
Mercury	9122-02-03 08:38 G		5052834.76	5052834.86	5052834.97	0.2666	0.0869	
Mercury	9131-07-30 22:33 G		5056299.31	5056299.44	5056299.58	0.2674	0.0931	

Mercury	9135-02-06 03:07 G	5057585.57	5057585.63	5057585.69	0.2663	0.2264
Mercury	9142-01-29 23:31 G	5060135.40	5060135.48	5060135.55	0.2669	0.2049
Mercury	9144-08-02 03:07 G	5061050.51	5061050.63	5061050.75	0.2674	0.1551
Mercury	9155-02-01 18:43 G	5064886.17	5064886.28	5064886.40	0.2668	0.0333
Venus	9157-02-11 12:57 G	5065626.89	5065627.04	5065627.19	0.2675	0.0679
Mercury	9168-02-04 13:40 G	5069636.97	5069637.07	5069637.18	0.2666	0.1088
Mercury	9177-07-31 05:02 G	5073101.56	5073101.71	5073101.85	0.2674	0.0598
Mercury	9181-02-06 07:55 G	5074387.81	5074387.83	5074387.86	0.2661	0.2573
Mercury	9188-01-31 04:33 G	5076937.59	5076937.69	5076937.78	0.2669	0.1600
Mercury	9190-08-03 09:21 G	5077852.81	5077852.89	5077852.97	0.2674	0.2249
Mercury	9201-02-01 23:45 G	5081688.38	5081688.49	5081688.61	0.2667	0.0152
Mercury	9210-07-29 07:26 G	5085152.77	5085152.81	5085152.85	0.2674	0.2544
Mercury	9214-02-04 18:43 G	5086439.18	5086439.28	5086439.37	0.2665	0.1497
Mercury	9223-08-01 11:16 G	5089903.83	5089903.97	5089904.12	0.2675	0.0100
Mercury	9234-01-31 09:36 G	5093739.80	5093739.90	5093740.00	0.2668	0.1356
Mercury	9236-08-03 15:36 G	5094655.11	5094655.15	5094655.19	0.2674	0.2573
Mercury	9247-02-03 04:48 G	5098490.59	5098490.70	5098490.82	0.2667	0.0334
Mercury	9256-07-29 13:40 G	5101954.97	5101955.07	5101955.16	0.2674	0.2017
Mercury	9260-02-05 23:31 G	5103241.39	5103241.48	5103241.57	0.2663	0.1680
Mercury	9267-01-29 19:11 G	5105791.27	5105791.30	5105791.32	0.2667	0.2584
Mercury	9269-08-01 17:45 G	5106706.10	5106706.24	5106706.38	0.2676	0.0520
Mercury	9280-02-01 14:38 G	5110542.01	5110542.11	5110542.22	0.2668	0.0961
Mercury	9293-02-03 09:50 G	5115292.80	5115292.91	5115293.02	0.2667	0.0526
Mercury	9302-07-31 19:55 G	5118757.21	5118757.33	5118757.44	0.2674	0.1504
Venus	9302-08-10 15:07 G	5118766.99	5118767.13	5118767.28	0.2657	0.1284
Mercury	9306-02-07 04:33 G	5120043.62	5120043.69	5120043.75	0.2662	0.2110
Mercury	9313-01-31 00:14 G	5122593.45	5122593.51	5122593.57	0.2667	0.2286
Mercury	9315-08-03 23:45 G	5123508.36	5123508.49	5123508.62	0.2676	0.1094
Mercury	9326-02-02 19:55 G	5127344.21	5127344.33	5127344.44	0.2668	0.0638
Mercury	9339-02-05 14:52 G	5132095.01	5132095.12	5132095.22	0.2666	0.0933

Mercury	9348-08-01 02:09 G	5135559.46	5135559.59	5135559.72	0.2676	0.1064
Mercury	9352-02-08 09:21 G	5136845.84	5136845.89	5136845.95	0.2661	0.2292
Mercury	9359-02-01 05:31 G	5139395.64	5139395.73	5139395.81	0.2667	0.1872
Mercury	9361-08-04 06:00 G	5140310.64	5140310.75	5140310.87	0.2675	0.1574
Mercury	9372-02-04 00:43 G	5144146.42	5144146.53	5144146.65	0.2668	0.0345
Mercury	9385-02-05 19:55 G	5148897.22	5148897.33	5148897.43	0.2664	0.1207
Mercury	9394-08-02 08:09 G	5152361.70	5152361.84	5152361.99	0.2676	0.0433
Venus	9400-02-13 13:40 G	5154382.91	5154383.07	5154383.23	0.2662	0.0749
Mercury	9405-02-02 10:33 G	5156197.85	5156197.94	5156198.03	0.2668	0.1621
Mercury	9407-08-06 12:28 G	5157112.93	5157113.02	5157113.11	0.2674	0.2089
Mercury	9418-02-05 05:45 G	5160948.63	5160948.74	5160948.86	0.2668	0.0093
Mercury	9427-08-01 10:48 G	5164412.90	5164412.95	5164413.01	0.2674	0.2425
Mercury	9431-02-08 00:43 G	5165699.44	5165699.53	5165699.63	0.2663	0.1523
Mercury	9440-08-03 14:23 G	5169163.96	5169164.10	5169164.25	0.2676	0.0096
Mercury	9451-02-03 15:36 G	5173000.05	5173000.15	5173000.26	0.2668	0.1164
Mercury	9464-02-06 11:02 G	5177750.84	5177750.96	5177751.07	0.2666	0.0308
Mercury	9473-08-01 17:02 G	5181215.13	5181215.21	5181215.30	0.2676	0.2090
Mercury	9477-02-08 05:45 G	5182501.66	5182501.74	5182501.82	0.2663	0.1865
Mercury	9484-02-02 01:11 G	5185051.51	5185051.55	5185051.59	0.2666	0.2467
Mercury	9486-08-04 20:38 G	5185966.22	5185966.36	5185966.50	0.2676	0.0593
Mercury	9497-02-03 20:38 G	5189802.26	5189802.36	5189802.47	0.2668	0.0972
Mercury	9510-02-07 16:04 G	5194553.06	5194553.17	5194553.28	0.2665	0.0736
Mercury	9519-08-03 23:02 G	5198017.35	5198017.46	5198017.58	0.2676	0.1468
Mercury	9523-02-10 10:48 G	5199303.88	5199303.95	5199304.01	0.2663	0.2110
Mercury	9530-02-03 06:28 G	5201853.70	5201853.77	5201853.83	0.2667	0.2197
Mercury	9532-08-06 03:07 G	5202768.50	5202768.63	5202768.76	0.2676	0.0971
Venus	9537-08-14 21:21 G	5204603.35	5204603.39	5204603.44	0.2669	0.2541
Mercury	9543-02-06 01:40 G	5206604.46	5206604.57	5206604.69	0.2668	0.0519
Venus	9545-08-12 16:33 G	5207523.04	5207523.19	5207523.33	0.2673	0.0917
Mercury	9556-02-08 21:07 G	5211355.27	5211355.38	5211355.48	0.2665	0.0926

Mercury	9565-08-04 05:16 G	5214819.59	5214819.72	5214819.85	0.2676	0.1080
Mercury	9569-02-10 15:36 G	5216106.11	5216106.15	5216106.19	0.2662	0.2486
Mercury	9576-02-04 11:31 G	5218655.89	5218655.98	5218656.06	0.2668	0.1822
Mercury	9578-08-07 09:36 G	5219570.78	5219570.90	5219571.01	0.2676	0.1663
Mercury	9589-02-06 06:57 G	5223406.68	5223406.79	5223406.90	0.2667	0.0267
Mercury	9602-02-09 01:55 G	5228157.49	5228157.58	5228157.68	0.2665	0.1377
Mercury	9611-08-05 11:31 G	5231621.84	5231621.98	5231622.12	0.2676	0.0502
Mercury	9622-02-04 16:33 G	5235458.09	5235458.19	5235458.28	0.2668	0.1506
Mercury	9624-08-07 15:50 G	5236373.07	5236373.16	5236373.25	0.2676	0.2051
Mercury	9635-02-07 12:00 G	5240208.89	5240209.00	5240209.12	0.2666	0.0143
Venus	9643-02-15 11:02 G	5243138.81	5243138.96	5243139.11	0.2672	0.0274
Mercury	9644-08-02 14:09 G	5243673.06	5243673.09	5243673.13	0.2675	0.2587
Mercury	9648-02-10 06:57 G	5244959.70	5244959.79	5244959.88	0.2664	0.1555
Mercury	9657-08-05 18:00 G	5248424.10	5248424.25	5248424.39	0.2676	0.0082
Mercury	9668-02-05 21:36 G	5252260.30	5252260.40	5252260.50	0.2667	0.1183
Mercury	9670-08-08 21:50 G	5253175.40	5253175.41	5253175.42	0.2675	0.2659
Mercury	9681-02-07 17:02 G	5257011.10	5257011.21	5257011.33	0.2666	0.0431
Mercury	9690-08-03 20:23 G	5260475.25	5260475.35	5260475.44	0.2675	0.1960
Mercury	9694-02-10 11:45 G	5261761.92	5261761.99	5261762.07	0.2662	0.1956
Mercury	9701-02-04 07:11 G	5264311.76	5264311.80	5264311.84	0.2666	0.2506
Mercury	9703-08-08 00:14 G	5265226.37	5265226.51	5265226.65	0.2677	0.0475
Mercury	9714-02-07 02:52 G	5269062.51	5269062.62	5269062.73	0.2667	0.0764
Mercury	9727-02-09 22:04 G	5273813.31	5273813.42	5273813.53	0.2666	0.0746
Mercury	9736-08-05 02:38 G	5277277.50	5277277.61	5277277.72	0.2676	0.1612
Mercury	9740-02-12 16:48 G	5278564.14	5278564.20	5278564.26	0.2661	0.2206
Mercury	9747-02-05 12:14 G	5281113.94	5281114.01	5281114.08	0.2666	0.2044
Mercury	9749-08-08 06:14 G	5282028.63	5282028.76	5282028.89	0.2677	0.1087
Mercury	9760-02-08 07:55 G	5285864.72	5285864.83	5285864.95	0.2667	0.0537
Mercury	9773-02-10 03:07 G	5290615.52	5290615.63	5290615.73	0.2665	0.1100
Mercury	9782-08-06 08:52 G	5294079.73	5294079.87	5294080.00	0.2677	0.0930

Mercury	9786-02-12 21:50 G	5295366.38	5295366.41	5295366.44	0.2661	0.2540
Venus	9788-08-13 20:23 G	5296279.19	5296279.35	5296279.51	0.2660	0.0768
Mercury	9793-02-05 17:31 G	5297916.14	5297916.23	5297916.31	0.2666	0.1816
Mercury	9795-08-09 12:28 G	5298830.90	5298831.02	5298831.14	0.2676	0.1458
Mercury	9806-02-09 12:57 G	5302666.93	5302667.04	5302667.16	0.2667	0.0095
Mercury	9819-02-12 08:09 G	5307417.74	5307417.84	5307417.94	0.2663	0.1339
Mercury	9828-08-07 15:07 G	5310881.99	5310882.13	5310882.27	0.2678	0.0604
Mercury	9839-02-07 22:33 G	5314718.35	5314718.44	5314718.54	0.2666	0.1362
Mercury	9841-08-10 18:43 G	5315633.20	5315633.28	5315633.37	0.2676	0.2155
Mercury	9852-02-10 18:00 G	5319469.14	5319469.25	5319469.37	0.2667	0.0123
Mercury	9861-08-05 18:00 G	5322933.20	5322933.25	5322933.29	0.2676	0.2517
Mercury	9865-02-12 13:11 G	5324219.96	5324220.05	5324220.13	0.2662	0.1772
Mercury	9874-08-08 21:07 G	5327684.24	5327684.38	5327684.52	0.2677	0.0060
Mercury	9885-02-08 03:50 G	5331520.55	5331520.66	5331520.76	0.2667	0.1104
Venus	9886-02-17 20:23 G	5331895.20	5331895.35	5331895.50	0.2663	0.1050
Mercury	9887-08-12 01:26 G	5332435.51	5332435.56	5332435.60	0.2675	0.2534
Mercury	9898-02-10 23:02 G	5336271.35	5336271.46	5336271.58	0.2665	0.0573
Mercury	9907-08-08 00:00 G	5339735.41	5339735.50	5339735.59	0.2677	0.2021
Mercury	9911-02-14 18:00 G	5341022.18	5341022.25	5341022.33	0.2662	0.1950
Mercury	9918-02-07 13:11 G	5343572.00	5343572.05	5343572.10	0.2665	0.2350
Mercury	9920-08-10 03:21 G	5344486.50	5344486.64	5344486.78	0.2677	0.0437
Mercury	9931-02-10 08:52 G	5348322.76	5348322.87	5348322.98	0.2667	0.0715
Mercury	9944-02-13 04:19 G	5353073.57	5353073.68	5353073.79	0.2664	0.0803
Mercury	9953-08-08 06:00 G	5356537.63	5356537.75	5356537.87	0.2677	0.1496
Mercury	9957-02-14 23:02 G	5357824.41	5357824.46	5357824.51	0.2662	0.2388
Mercury	9964-02-08 18:28 G	5360374.20	5360374.27	5360374.34	0.2666	0.2042
Mercury	9966-08-11 09:36 G	5361288.77	5361288.90	5361289.03	0.2677	0.1041
Mercury	9977-02-10 13:55 G	5365124.97	5365125.08	5365125.19	0.2667	0.0410
Mercury	9990-02-13 09:07 G	5369875.78	5369875.88	5369875.99	0.2664	0.1205
Mercury	9999-08-09 12:00 G	5373339.87	5373340.00	5373340.13	0.2677	0.1096

11TH MILLENNIUM CE

This is a list of transits visible from Moon in the 11th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	10003-02-16 03:50 G		5374626.63	5374626.66	5374626.69	0.2661	0.2561	
Mercury	10010-02-08 23:31 G		5377176.39	5377176.48	5377176.57	0.2666	0.1625	
Mercury	10012-08-11 16:04 G		5378091.05	5378091.17	5378091.28	0.2677	0.1566	
Mercury	10023-02-11 19:11 G		5381927.18	5381927.30	5381927.41	0.2666	0.0134	
Venus	10023-08-18 21:50 G		5382115.32	5382115.41	5382115.50	0.2667	0.2146	
Venus	10031-08-16 14:38 G		5385035.01	5385035.11	5385035.21	0.2673	0.2011	
Mercury	10036-02-14 14:09 G		5386678.00	5386678.09	5386678.19	0.2664	0.1461	
Mercury	10045-08-09 18:14 G		5390142.12	5390142.26	5390142.40	0.2677	0.0474	
Mercury	10056-02-10 04:33 G		5393978.59	5393978.69	5393978.79	0.2666	0.1396	
Mercury	10058-08-12 22:04 G		5394893.33	5394893.42	5394893.52	0.2677	0.2022	
Mercury	10069-02-12 00:14 G		5398729.39	5398729.51	5398729.62	0.2665	0.0325	
Mercury	10078-08-07 21:21 G		5402193.33	5402193.39	5402193.44	0.2677	0.2413	
Mercury	10082-02-14 19:11 G		5403480.22	5403480.30	5403480.38	0.2663	0.1794	
Mercury	10091-08-11 00:28 G		5406944.38	5406944.52	5406944.67	0.2678	0.0135	
Mercury	10102-02-11 09:36 G		5410780.80	5410780.90	5410781.01	0.2666	0.0944	
Mercury	10104-08-14 04:19 G		5411695.65	5411695.68	5411695.71	0.2677	0.2612	
Mercury	10115-02-14 05:16 G		5415531.61	5415531.72	5415531.83	0.2665	0.0550	
Mercury	10124-08-09 03:21 G		5418995.55	5418995.64	5418995.73	0.2677	0.2100	
Mercury	10128-02-17 00:14 G		5420282.44	5420282.51	5420282.58	0.2661	0.2129	

Venus	10129-02-19 11:31 G	5420650.83	5420650.98	5420651.14	0.2665	0.0304
Mercury	10135-02-09 19:11 G	5422832.24	5422832.30	5422832.36	0.2665	0.2233
Mercury	10137-08-12 06:43 G	5423746.65	5423746.78	5423746.92	0.2679	0.0599
Mercury	10148-02-12 14:52 G	5427583.01	5427583.12	5427583.23	0.2666	0.0706
Mercury	10161-02-14 10:19 G	5432333.82	5432333.93	5432334.03	0.2665	0.0987
Mercury	10170-08-10 09:36 G	5435797.78	5435797.90	5435798.02	0.2677	0.1463
Mercury	10174-02-17 05:02 G	5437084.66	5437084.71	5437084.76	0.2660	0.2363
Mercury	10181-02-10 00:14 G	5439634.44	5439634.51	5439634.59	0.2664	0.1992
Mercury	10183-08-13 12:57 G	5440548.91	5440549.04	5440549.17	0.2678	0.0909
Mercury	10194-02-12 20:09 G	5444385.22	5444385.34	5444385.45	0.2666	0.0270
Mercury	10207-02-16 15:21 G	5449136.04	5449136.14	5449136.24	0.2664	0.1182
Mercury	10216-08-11 15:50 G	5452600.03	5452600.16	5452600.29	0.2678	0.1049
Mercury	10227-02-12 05:31 G	5456436.64	5456436.73	5456436.82	0.2665	0.1579
Mercury	10229-08-14 19:11 G	5457351.18	5457351.30	5457351.41	0.2678	0.1584
Mercury	10240-02-15 01:11 G	5461187.43	5461187.55	5461187.66	0.2666	0.0072
Mercury	10253-02-16 20:23 G	5465938.26	5465938.35	5465938.44	0.2662	0.1627
Mercury	10262-08-12 21:50 G	5469402.27	5469402.41	5469402.55	0.2679	0.0528
Mercury	10273-02-12 10:48 G	5473238.84	5473238.95	5473239.05	0.2665	0.1240
Venus	10274-08-19 00:00 G	5473791.34	5473791.50	5473791.66	0.2667	0.0589
Mercury	10275-08-16 01:26 G	5474153.47	5474153.56	5474153.66	0.2677	0.1985
Mercury	10286-02-15 06:14 G	5477989.64	5477989.76	5477989.87	0.2666	0.0387
Mercury	10295-08-11 00:57 G	5481453.50	5481453.54	5481453.58	0.2677	0.2548
Mercury	10299-02-18 01:26 G	5482740.48	5482740.56	5482740.64	0.2661	0.1835
Mercury	10306-02-11 19:55 G	5485290.30	5485290.33	5485290.37	0.2662	0.2513
Mercury	10308-08-14 03:50 G	5486204.52	5486204.66	5486204.80	0.2679	0.0043
Mercury	10319-02-14 15:50 G	5490041.05	5490041.16	5490041.27	0.2666	0.0931
Mercury	10321-08-17 07:55 G	5490955.79	5490955.83	5490955.86	0.2677	0.2593
Mercury	10332-02-17 11:16 G	5494791.86	5494791.97	5494792.08	0.2664	0.0681
Mercury	10341-08-12 06:57 G	5498255.69	5498255.79	5498255.89	0.2678	0.1916
Mercury	10345-02-19 06:14 G	5499542.70	5499542.76	5499542.82	0.2661	0.2250

Mercury	10352-02-13 01:11 G	5502092.49	5502092.55	5502092.61	0.2663	0.2258
Mercury	10354-08-15 10:04 G	5503006.78	5503006.92	5503007.06	0.2678	0.0426
Mercury	10365-02-14 20:52 G	5506843.26	5506843.37	5506843.48	0.2666	0.0537
Venus	10372-02-23 00:28 G	5509407.37	5509407.52	5509407.67	0.2665	0.0595
Mercury	10378-02-17 16:19 G	5511594.08	5511594.18	5511594.29	0.2663	0.1007
Mercury	10387-08-13 12:57 G	5515057.93	5515058.04	5515058.15	0.2679	0.1629
Mercury	10391-02-20 11:16 G	5516344.93	5516344.97	5516345.01	0.2661	0.2476
Mercury	10398-02-13 06:28 G	5518894.68	5518894.77	5518894.85	0.2664	0.1788
Mercury	10400-08-15 16:19 G	5519809.05	5519809.18	5519809.31	0.2678	0.1057
Mercury	10411-02-16 01:55 G	5523645.47	5523645.58	5523645.70	0.2665	0.0301
Mercury	10424-02-18 21:21 G	5528396.30	5528396.39	5528396.49	0.2663	0.1383
Mercury	10433-08-13 18:57 G	5531860.16	5531860.29	5531860.43	0.2678	0.0954
Mercury	10444-02-14 11:31 G	5535696.89	5535696.98	5535697.07	0.2665	0.1581
Mercury	10446-08-16 22:33 G	5536611.32	5536611.44	5536611.56	0.2679	0.1427
Mercury	10457-02-16 07:11 G	5540447.68	5540447.80	5540447.92	0.2664	0.0172
Mercury	10470-02-19 02:23 G	5545198.51	5545198.60	5545198.69	0.2663	0.1619
Mercury	10479-08-15 01:11 G	5548662.42	5548662.55	5548662.69	0.2679	0.0617
Mercury	10490-02-14 16:33 G	5552499.09	5552499.19	5552499.30	0.2665	0.1124
Mercury	10492-08-17 04:48 G	5553413.61	5553413.70	5553413.79	0.2679	0.2117
Mercury	10503-02-18 12:14 G	5557249.90	5557250.01	5557250.13	0.2664	0.0400
Venus	10509-08-23 00:57 G	5559627.40	5559627.54	5559627.67	0.2664	0.1541
Mercury	10512-08-13 04:33 G	5560713.64	5560713.69	5560713.73	0.2678	0.2512
Mercury	10516-02-21 07:26 G	5562000.73	5562000.81	5562000.88	0.2662	0.2028
Venus	10517-08-20 13:55 G	5562547.02	5562547.08	5562547.14	0.2671	0.2455
Mercury	10523-02-14 01:55 G	5564550.54	5564550.58	5564550.63	0.2663	0.2459
Mercury	10525-08-16 07:26 G	5565464.67	5565464.81	5565464.96	0.2679	0.0078
Mercury	10536-02-16 21:50 G	5569301.30	5569301.41	5569301.52	0.2665	0.0878
Mercury	10538-08-19 11:02 G	5570215.90	5570215.96	5570216.01	0.2678	0.2433
Mercury	10549-02-18 17:16 G	5574052.11	5574052.22	5574052.33	0.2664	0.0844
Mercury	10558-08-14 10:33 G	5577515.84	5577515.94	5577516.03	0.2678	0.2015

Mercury	10562-02-21 12:28 G	5578802.95	5578803.02	5578803.08	0.2660	0.2220
Mercury	10569-02-14 07:11 G	5581352.73	5581352.80	5581352.87	0.2663	0.2124
Mercury	10571-08-17 13:40 G	5582266.93	5582267.07	5582267.21	0.2680	0.0440
Mercury	10582-02-17 02:52 G	5586103.51	5586103.62	5586103.74	0.2665	0.0471
Mercury	10595-02-19 22:19 G	5590854.33	5590854.43	5590854.54	0.2664	0.1044
Mercury	10604-08-15 16:33 G	5594318.08	5594318.19	5594318.31	0.2679	0.1484
Mercury	10608-02-23 17:16 G	5595605.22	5595605.22	5595605.22	0.2659	0.2657
Mercury	10615-02-16 12:14 G	5598154.93	5598155.01	5598155.09	0.2663	0.1809
Venus	10615-02-24 15:21 G	5598162.98	5598163.14	5598163.31	0.2658	0.0066
Mercury	10617-08-18 19:40 G	5599069.19	5599069.32	5599069.45	0.2680	0.0983
Mercury	10628-02-19 08:09 G	5602905.72	5602905.84	5602905.95	0.2665	0.0135
Mercury	10641-02-21 03:21 G	5607656.55	5607656.64	5607656.74	0.2663	0.1463
Mercury	10650-08-16 22:48 G	5611120.32	5611120.45	5611120.58	0.2680	0.1086
Mercury	10661-02-16 17:31 G	5614957.13	5614957.23	5614957.33	0.2664	0.1397
Mercury	10663-08-20 01:55 G	5615871.46	5615871.58	5615871.69	0.2679	0.1476
Mercury	10674-02-19 13:11 G	5619707.93	5619708.05	5619708.17	0.2665	0.0179
Mercury	10687-02-22 08:23 G	5624458.77	5624458.85	5624458.94	0.2661	0.1743
Mercury	10696-08-17 04:48 G	5627922.56	5627922.70	5627922.84	0.2680	0.0465
Mercury	10707-02-18 22:33 G	5631759.34	5631759.44	5631759.55	0.2664	0.1144
Mercury	10709-08-21 08:09 G	5632673.74	5632673.84	5632673.93	0.2678	0.1955
Mercury	10720-02-21 18:14 G	5636510.15	5636510.26	5636510.37	0.2664	0.0550
Mercury	10729-08-16 08:09 G	5639973.78	5639973.84	5639973.90	0.2679	0.2381
Mercury	10733-02-23 13:40 G	5641260.99	5641261.07	5641261.14	0.2660	0.2064
Mercury	10740-02-17 07:55 G	5643810.79	5643810.83	5643810.87	0.2661	0.2461
Mercury	10742-08-19 10:48 G	5644724.81	5644724.95	5644725.09	0.2680	0.0148
Venus	10752-08-25 06:00 G	5648383.69	5648383.75	5648383.81	0.2676	0.2417
Mercury	10753-02-19 03:50 G	5648561.55	5648561.66	5648561.77	0.2665	0.0672
Mercury	10755-08-22 14:23 G	5649476.07	5649476.10	5649476.13	0.2678	0.2588
Venus	10760-08-23 00:14 G	5651303.38	5651303.51	5651303.64	0.2675	0.1448
Mercury	10766-02-21 23:16 G	5653312.36	5653312.47	5653312.58	0.2663	0.0815

Mercury	10775-08-17 14:09 G	5656776.01	5656776.09	5656776.18	0.2680	0.2053
Mercury	10779-02-24 18:28 G	5658063.23	5658063.27	5658063.32	0.2660	0.2403
Mercury	10786-02-17 13:11 G	5660612.97	5660613.05	5660613.12	0.2662	0.1995
Mercury	10788-08-19 17:02 G	5661527.07	5661527.21	5661527.35	0.2680	0.0536
Mercury	10799-02-20 08:52 G	5665363.75	5665363.87	5665363.98	0.2665	0.0477
Mercury	10812-02-23 04:33 G	5670114.59	5670114.69	5670114.79	0.2662	0.1262
Mercury	10821-08-17 20:09 G	5673578.22	5673578.34	5673578.45	0.2680	0.1469
Mercury	10825-02-24 23:31 G	5674865.48	5674865.48	5674865.48	0.2660	0.2660
Mercury	10832-02-18 18:14 G	5677415.17	5677415.26	5677415.35	0.2663	0.1727
Mercury	10834-08-20 23:16 G	5678329.34	5678329.47	5678329.60	0.2680	0.0900
Mercury	10845-02-20 13:55 G	5682165.97	5682166.08	5682166.20	0.2664	0.0054
Mercury	10858-02-23 09:36 G	5686916.80	5686916.90	5686917.00	0.2662	0.1452
Venus	10858-02-26 01:40 G	5686919.42	5686919.57	5686919.72	0.2666	0.0275
Venus	10866-02-23 19:26 G	5689839.28	5689839.31	5689839.35	0.2660	0.2568
Mercury	10867-08-19 02:09 G	5690380.46	5690380.59	5690380.72	0.2679	0.1085
Mercury	10878-02-18 23:16 G	5694217.37	5694217.47	5694217.57	0.2664	0.1338
Mercury	10880-08-21 05:31 G	5695131.61	5695131.73	5695131.84	0.2680	0.1549
Mercury	10891-02-21 19:11 G	5698968.18	5698968.30	5698968.42	0.2664	0.0240
Mercury	10904-02-25 14:38 G	5703719.03	5703719.11	5703719.19	0.2662	0.1906
Mercury	10913-08-20 08:09 G	5707182.71	5707182.84	5707182.98	0.2680	0.0550
Mercury	10924-02-21 04:33 G	5711019.58	5711019.69	5711019.80	0.2664	0.1021
Mercury	10926-08-23 11:31 G	5711933.89	5711933.98	5711934.08	0.2680	0.1925
Mercury	10937-02-23 00:28 G	5715770.40	5715770.52	5715770.63	0.2663	0.0658
Mercury	10946-08-18 11:45 G	5719233.95	5719233.99	5719234.03	0.2679	0.2542
Mercury	10950-02-25 19:26 G	5720521.25	5720521.31	5720521.38	0.2661	0.2097
Mercury	10957-02-18 13:55 G	5723071.02	5723071.08	5723071.14	0.2662	0.2254
Mercury	10959-08-21 14:23 G	5723984.96	5723985.10	5723985.25	0.2680	0.0086
Mercury	10970-02-21 09:36 G	5727821.79	5727821.90	5727822.02	0.2664	0.0689
Mercury	10972-08-23 17:31 G	5728736.19	5728736.23	5728736.28	0.2679	0.2502
Mercury	10983-02-24 05:31 G	5732572.62	5732572.73	5732572.84	0.2664	0.0943

Mercury	10992-08-18 17:31 G	5736036.14	5736036.23	5736036.33	0.2679	0.1928
Venus	10995-08-27 06:00 G	5737139.61	5737139.75	5737139.88	0.2665	0.1591
Mercury	10996-02-27 00:28 G	5737323.49	5737323.52	5737323.56	0.2659	0.2509

12TH MILLENNIUM CE

This is a list of transits visible from Moon in the 12th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	11003-02-20 18:57 G		5739873.21	5739873.29	5739873.36	0.2662	0.2037	
Venus	11003-08-25 16:04 G		5740059.08	5740059.17	5740059.26	0.2668	0.2190	
Mercury	11005-08-22 20:38 G		5740787.22	5740787.36	5740787.50	0.2681	0.0399	
Mercury	11016-02-23 14:52 G		5744624.01	5744624.12	5744624.24	0.2664	0.0273	
Mercury	11029-02-25 10:33 G		5749374.83	5749374.94	5749375.04	0.2663	0.1274	
Mercury	11038-08-20 23:45 G		5752838.38	5752838.49	5752838.61	0.2680	0.1594	
Mercury	11049-02-21 00:00 G		5756675.41	5756675.50	5756675.60	0.2662	0.1566	
Mercury	11051-08-24 02:38 G		5757589.48	5757589.61	5757589.74	0.2681	0.1008	
Mercury	11062-02-23 20:09 G		5761426.22	5761426.34	5761426.45	0.2664	0.0071	
Mercury	11075-02-26 15:36 G		5766177.06	5766177.15	5766177.24	0.2662	0.1629	
Mercury	11084-08-21 06:00 G		5769640.62	5769640.75	5769640.88	0.2681	0.0935	
Mercury	11095-02-22 05:16 G		5773477.62	5773477.72	5773477.82	0.2662	0.1334	
Mercury	11097-08-24 08:52 G		5774391.74	5774391.87	5774391.99	0.2680	0.1367	
Venus	11101-02-28 22:19 G		5775675.26	5775675.43	5775675.59	0.2653	0.0101	
Mercury	11108-02-26 01:11 G		5778228.43	5778228.55	5778228.66	0.2664	0.0430	
Mercury	11121-02-27 20:38 G		5782979.28	5782979.36	5782979.44	0.2660	0.1879	

Mercury	11128-02-21 14:23 G	5785529.09	5785529.10	5785529.12	0.2659	0.2629
Mercury	11130-08-23 12:00 G	5786442.86	5786443.00	5786443.14	0.2681	0.0618
Mercury	11141-02-23 10:33 G	5790279.83	5790279.94	5790280.05	0.2663	0.0866
Mercury	11143-08-26 15:07 G	5791194.04	5791194.13	5791194.21	0.2680	0.2048
Mercury	11154-02-26 06:14 G	5795030.65	5795030.76	5795030.87	0.2664	0.0627
Mercury	11163-08-21 15:36 G	5798494.09	5798494.15	5798494.20	0.2680	0.2451
Mercury	11167-03-01 01:40 G	5799781.51	5799781.57	5799781.62	0.2660	0.2317
Mercury	11174-02-21 19:40 G	5802331.26	5802331.32	5802331.38	0.2660	0.2221
Mercury	11176-08-23 18:00 G	5803245.11	5803245.25	5803245.39	0.2681	0.0085
Mercury	11187-02-24 15:36 G	5807082.04	5807082.15	5807082.27	0.2664	0.0627
Mercury	11189-08-26 21:21 G	5807996.33	5807996.39	5807996.45	0.2679	0.2405
Mercury	11200-02-27 11:16 G	5811832.87	5811832.97	5811833.08	0.2662	0.1096
Mercury	11209-08-21 21:36 G	5815296.31	5815296.40	5815296.49	0.2681	0.2000
Mercury	11213-03-01 06:43 G	5816583.74	5816583.78	5816583.81	0.2660	0.2501
Mercury	11220-02-23 00:57 G	5819133.46	5819133.54	5819133.62	0.2661	0.1873
Mercury	11222-08-25 00:00 G	5820047.36	5820047.50	5820047.64	0.2681	0.0394
Mercury	11233-02-24 20:52 G	5823884.25	5823884.37	5823884.48	0.2664	0.0229
Venus	11238-08-29 02:23 G	5825895.47	5825895.60	5825895.73	0.2679	0.1269
Mercury	11246-02-27 16:33 G	5828635.09	5828635.19	5828635.29	0.2661	0.1327
Venus	11246-08-26 21:21 G	5828815.34	5828815.39	5828815.44	0.2680	0.2500
Mercury	11255-08-23 03:21 G	5832098.52	5832098.64	5832098.76	0.2681	0.1480
Mercury	11266-02-23 06:14 G	5835935.66	5835935.76	5835935.85	0.2662	0.1565
Mercury	11268-08-25 06:14 G	5836849.63	5836849.76	5836849.89	0.2681	0.0954
Mercury	11279-02-26 01:55 G	5840686.47	5840686.58	5840686.70	0.2663	0.0110
Mercury	11292-02-28 21:36 G	5845437.31	5845437.40	5845437.49	0.2661	0.1743
Mercury	11301-08-24 09:21 G	5848900.76	5848900.89	5848901.02	0.2681	0.1096
Mercury	11312-02-25 11:16 G	5852737.86	5852737.97	5852738.07	0.2663	0.1145
Mercury	11314-08-27 12:28 G	5853651.90	5853652.02	5853652.13	0.2681	0.1477
Mercury	11325-02-27 07:11 G	5857488.68	5857488.80	5857488.91	0.2663	0.0435
Mercury	11338-03-02 02:38 G	5862239.54	5862239.61	5862239.69	0.2661	0.2000

Venus	11344-03-02 01:11 G	5864431.40	5864431.55	5864431.70	0.2665	0.0257
Mercury	11345-02-22 20:23 G	5864789.31	5864789.35	5864789.40	0.2659	0.2432
Mercury	11347-08-25 15:36 G	5865703.01	5865703.15	5865703.28	0.2681	0.0482
Mercury	11358-02-25 16:19 G	5869540.07	5869540.18	5869540.29	0.2663	0.0908
Mercury	11360-08-27 18:28 G	5870454.17	5870454.27	5870454.37	0.2681	0.1898
Mercury	11371-02-28 12:14 G	5874290.90	5874291.01	5874291.12	0.2662	0.0846
Mercury	11380-08-22 19:11 G	5877754.24	5877754.30	5877754.36	0.2680	0.2353
Mercury	11384-03-02 07:40 G	5879041.77	5879041.82	5879041.87	0.2660	0.2344
Mercury	11391-02-24 01:40 G	5881591.51	5881591.57	5881591.63	0.2661	0.2213
Mercury	11393-08-25 21:50 G	5882505.27	5882505.41	5882505.55	0.2682	0.0138
Mercury	11404-02-27 21:36 G	5886342.28	5886342.40	5886342.51	0.2662	0.0442
Mercury	11406-08-30 00:28 G	5887256.47	5887256.52	5887256.57	0.2681	0.2496
Mercury	11417-03-01 17:31 G	5891093.12	5891093.23	5891093.33	0.2663	0.1080
Mercury	11426-08-25 01:11 G	5894556.46	5894556.55	5894556.64	0.2680	0.2050
Mercury	11437-02-25 06:43 G	5898393.69	5898393.78	5898393.87	0.2661	0.1755
Mercury	11439-08-28 03:50 G	5899307.52	5899307.66	5899307.79	0.2682	0.0544
Mercury	11450-02-28 02:52 G	5903144.50	5903144.62	5903144.74	0.2663	0.0201
Mercury	11463-03-02 22:33 G	5907895.34	5907895.44	5907895.53	0.2662	0.1519
Mercury	11472-08-25 07:11 G	5911358.68	5911358.80	5911358.92	0.2681	0.1445
Venus	11481-08-31 09:36 G	5914651.79	5914651.90	5914652.01	0.2669	0.2008
Mercury	11483-02-26 12:00 G	5915195.90	5915196.00	5915196.09	0.2661	0.1510
Mercury	11485-08-28 09:50 G	5916109.77	5916109.91	5916110.04	0.2682	0.0843
Venus	11489-08-28 19:55 G	5917571.25	5917571.33	5917571.42	0.2668	0.2277
Mercury	11496-02-29 07:55 G	5919946.72	5919946.83	5919946.95	0.2663	0.0269
Mercury	11509-03-04 03:36 G	5924697.56	5924697.65	5924697.74	0.2661	0.1722
Mercury	11518-08-27 13:11 G	5928160.92	5928161.05	5928161.18	0.2682	0.1027
Mercury	11529-02-27 17:02 G	5931998.11	5931998.21	5931998.32	0.2661	0.1091
Mercury	11531-08-30 15:50 G	5932912.04	5932912.16	5932912.28	0.2681	0.1489
Mercury	11542-03-02 13:11 G	5936748.93	5936749.05	5936749.16	0.2663	0.0496
Mercury	11555-03-05 08:38 G	5941499.80	5941499.86	5941499.93	0.2659	0.2181

Mercury	11562-02-26 02:09 G	5944049.55	5944049.59	5944049.64	0.2658	0.2458
Mercury	11564-08-27 19:11 G	5944963.16	5944963.30	5944963.44	0.2682	0.0548
Mercury	11575-02-28 22:19 G	5948800.32	5948800.43	5948800.55	0.2662	0.0744
Mercury	11577-08-30 22:04 G	5949714.32	5949714.42	5949714.52	0.2681	0.1902
Venus	11587-03-05 06:57 G	5953187.63	5953187.79	5953187.96	0.2653	0.0181
Mercury	11588-03-02 18:14 G	5953551.15	5953551.26	5953551.37	0.2663	0.0910
Mercury	11597-08-25 23:02 G	5957014.41	5957014.46	5957014.51	0.2681	0.2489
Mercury	11601-03-05 13:55 G	5958302.03	5958302.08	5958302.12	0.2659	0.2390
Mercury	11608-02-27 07:26 G	5960851.73	5960851.81	5960851.88	0.2659	0.2033
Mercury	11610-08-29 01:11 G	5961765.41	5961765.55	5961765.69	0.2682	0.0080
Mercury	11621-03-01 03:36 G	5965602.53	5965602.65	5965602.77	0.2663	0.0427
Mercury	11623-09-01 04:19 G	5966516.63	5966516.68	5966516.73	0.2681	0.2461
Mercury	11634-03-03 23:31 G	5970353.37	5970353.48	5970353.58	0.2661	0.1218
Mercury	11643-08-27 05:02 G	5973816.61	5973816.71	5973816.81	0.2682	0.1859
Mercury	11654-02-27 12:43 G	5977653.94	5977654.03	5977654.12	0.2660	0.1774
Mercury	11656-08-29 07:11 G	5978567.67	5978567.80	5978567.94	0.2682	0.0391
Mercury	11667-03-02 08:38 G	5982404.74	5982404.86	5982404.98	0.2663	0.0033
Mercury	11680-03-04 04:33 G	5987155.60	5987155.69	5987155.79	0.2661	0.1544
Mercury	11689-08-27 11:02 G	5990618.84	5990618.96	5990619.07	0.2682	0.1585
Mercury	11700-02-28 18:00 G	5994456.14	5994456.25	5994456.35	0.2661	0.1301
Mercury	11702-08-31 13:26 G	5995369.94	5995370.06	5995370.19	0.2682	0.1020
Mercury	11713-03-03 13:55 G	5999206.96	5999207.08	5999207.20	0.2662	0.0234
Venus	11724-09-02 00:14 G	6003407.35	6003407.51	6003407.66	0.2678	0.0179
Mercury	11726-03-06 09:36 G	6003957.82	6003957.90	6003957.98	0.2661	0.1925
Mercury	11733-02-27 02:52 G	6006507.61	6006507.62	6006507.64	0.2656	0.2632
Mercury	11735-08-29 16:48 G	6007421.07	6007421.20	6007421.33	0.2682	0.0937
Mercury	11746-03-01 23:02 G	6011258.35	6011258.46	6011258.57	0.2662	0.1089
Mercury	11748-08-31 19:40 G	6012172.20	6012172.32	6012172.44	0.2682	0.1357
Mercury	11759-03-04 19:11 G	6016009.18	6016009.30	6016009.41	0.2662	0.0700
Mercury	11772-03-06 14:38 G	6020760.05	6020760.11	6020760.18	0.2661	0.2167

Mercury	11779-02-28 08:09 G	6023309.79	6023309.84	6023309.89	0.2658	0.2359
Mercury	11781-08-29 23:02 G	6024223.32	6024223.46	6024223.59	0.2682	0.0607
Mercury	11792-03-02 04:04 G	6028060.56	6028060.67	6028060.79	0.2662	0.0626
Mercury	11794-09-02 01:40 G	6028974.48	6028974.57	6028974.66	0.2682	0.2017
Mercury	11805-03-06 00:14 G	6032811.40	6032811.51	6032811.62	0.2662	0.0922
Mercury	11814-08-29 02:52 G	6036274.56	6036274.62	6036274.67	0.2681	0.2423
Mercury	11818-03-08 19:40 G	6037562.30	6037562.32	6037562.34	0.2659	0.2584
Mercury	11825-03-01 13:26 G	6040111.98	6040112.06	6040112.14	0.2660	0.1973
Mercury	11827-09-01 05:02 G	6041025.57	6041025.71	6041025.85	0.2683	0.0069
Venus	11830-03-07 01:26 G	6041943.41	6041943.56	6041943.71	0.2660	0.0062
Mercury	11838-03-04 09:21 G	6044862.78	6044862.89	6044863.01	0.2662	0.0372
Mercury	11840-09-03 07:40 G	6045776.75	6045776.82	6045776.89	0.2682	0.2324
Mercury	11851-03-07 05:16 G	6049613.62	6049613.72	6049613.82	0.2662	0.1384
Mercury	11860-08-29 08:52 G	6053076.77	6053076.87	6053076.96	0.2681	0.1956
Mercury	11871-03-02 18:28 G	6056914.18	6056914.27	6056914.36	0.2660	0.1639
Mercury	11873-09-01 11:02 G	6057827.83	6057827.96	6057828.10	0.2683	0.0421
Mercury	11884-03-04 14:38 G	6061665.00	6061665.11	6061665.23	0.2662	0.0112
Mercury	11897-03-07 10:33 G	6066415.84	6066415.94	6066416.03	0.2662	0.1589
Mercury	11906-08-31 14:52 G	6069879.00	6069879.12	6069879.23	0.2682	0.1430
Mercury	11917-03-03 23:45 G	6073716.39	6073716.49	6073716.59	0.2660	0.1312
Mercury	11919-09-03 17:02 G	6074630.08	6074630.21	6074630.34	0.2683	0.0926
Mercury	11930-03-06 19:55 G	6078467.21	6078467.33	6078467.45	0.2662	0.0384
Mercury	11943-03-09 15:36 G	6083218.07	6083218.15	6083218.22	0.2660	0.2011
Mercury	11952-08-31 20:52 G	6086681.24	6086681.37	6086681.49	0.2683	0.1066
Mercury	11963-03-05 05:02 G	6090518.60	6090518.71	6090518.82	0.2660	0.0893
Mercury	11965-09-03 23:02 G	6091432.34	6091432.46	6091432.58	0.2683	0.1420
Venus	11967-09-05 11:02 G	6092163.84	6092163.96	6092164.08	0.2675	0.1807
Mercury	11976-03-07 00:57 G	6095269.43	6095269.54	6095269.65	0.2662	0.0709
Mercury	11989-03-09 20:38 G	6100020.31	6100020.36	6100020.42	0.2658	0.2301
Mercury	11996-03-02 13:55 G	6102570.02	6102570.08	6102570.15	0.2657	0.2192

Mercury 11998-09-02 02:38 G 6103483.48 6103483.61 6103483.75 0.2684 0.0447

13TH MILLENNIUM CE

This is a list of transits visible from Moon in the 13th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	12009-03-05 10:19	G	6107320.81	6107320.93	6107321.04	0.2661	0.0635	
Mercury	12011-09-05 05:16	G	6108234.62	6108234.72	6108234.82	0.2682	0.1874	
Mercury	12022-03-08 06:00	G	6112071.65	6112071.75	6112071.86	0.2662	0.1091	
Mercury	12031-08-31 06:57	G	6115534.72	6115534.79	6115534.86	0.2682	0.2296	
Mercury	12035-03-11 01:55	G	6116822.56	6116822.58	6116822.59	0.2658	0.2635	
Mercury	12042-03-03 19:11	G	6119372.22	6119372.30	6119372.38	0.2658	0.1975	
Mercury	12044-09-02 08:38	G	6120285.72	6120285.86	6120286.00	0.2683	0.0142	
Mercury	12055-03-06 15:21	G	6124123.02	6124123.14	6124123.26	0.2662	0.0163	
Mercury	12057-09-05 11:31	G	6125036.93	6125036.98	6125037.03	0.2682	0.2509	
Mercury	12068-03-08 11:16	G	6128873.87	6128873.97	6128874.07	0.2661	0.1355	
Venus	12073-03-08 13:40	G	6130699.91	6130700.07	6130700.22	0.2656	0.0744	
Mercury	12077-08-31 12:43	G	6132336.94	6132337.03	6132337.12	0.2683	0.1979	
Mercury	12088-03-04 00:28	G	6136174.42	6136174.52	6136174.62	0.2659	0.1493	
Mercury	12090-09-03 14:38	G	6137087.98	6137088.11	6137088.25	0.2683	0.0519	
Mercury	12101-03-07 20:23	G	6140925.24	6140925.35	6140925.47	0.2662	0.0097	
Mercury	12114-03-10 16:33	G	6145676.10	6145676.19	6145676.27	0.2660	0.1811	
Mercury	12123-09-02 18:28	G	6149139.16	6149139.27	6149139.39	0.2683	0.1424	
Mercury	12134-03-06 05:45	G	6152976.63	6152976.74	6152976.84	0.2660	0.1227	

Mercury	12136-09-04 20:52 G	6153890.24	6153890.37	6153890.50	0.2683	0.0867
Mercury	12147-03-09 01:40 G	6157727.46	6157727.57	6157727.69	0.2661	0.0521
Mercury	12160-03-10 21:36 G	6162478.33	6162478.40	6162478.48	0.2660	0.2013
Mercury	12167-03-04 14:38 G	6165028.08	6165028.11	6165028.15	0.2655	0.2511
Mercury	12169-09-03 00:28 G	6165941.39	6165941.52	6165941.65	0.2683	0.1028
Mercury	12180-03-06 10:48 G	6169778.84	6169778.95	6169779.06	0.2661	0.0827
Mercury	12182-09-06 02:52 G	6170692.51	6170692.62	6170692.74	0.2683	0.1491
Mercury	12193-03-09 06:57 G	6174529.68	6174529.79	6174529.90	0.2661	0.0780
Mercury	12206-03-13 02:38 G	6179280.57	6179280.61	6179280.65	0.2660	0.2476
Venus	12210-09-07 00:00 G	6180919.34	6180919.50	6180919.66	0.2675	0.0151
Mercury	12213-03-05 19:55 G	6181830.26	6181830.33	6181830.39	0.2657	0.2204
Mercury	12215-09-05 06:28 G	6182743.64	6182743.77	6182743.91	0.2683	0.0526
Mercury	12226-03-08 15:50 G	6186581.05	6186581.16	6186581.28	0.2661	0.0520
Mercury	12228-09-07 08:52 G	6187494.77	6187494.87	6187494.97	0.2683	0.1865
Mercury	12239-03-11 12:14 G	6191331.90	6191332.01	6191332.11	0.2661	0.1195
Mercury	12248-09-02 10:33 G	6194794.89	6194794.94	6194795.00	0.2682	0.2443
Mercury	12259-03-07 00:57 G	6198632.46	6198632.54	6198632.63	0.2658	0.1760
Mercury	12261-09-05 12:43 G	6199545.89	6199546.03	6199546.16	0.2684	0.0080
Mercury	12272-03-08 21:07 G	6203383.27	6203383.38	6203383.50	0.2661	0.0178
Mercury	12274-09-08 14:52 G	6204297.06	6204297.12	6204297.18	0.2683	0.2406
Mercury	12285-03-11 17:16 G	6208134.12	6208134.22	6208134.32	0.2661	0.1487
Mercury	12294-09-03 16:33 G	6211597.09	6211597.19	6211597.29	0.2682	0.1829
Mercury	12305-03-08 06:14 G	6215434.66	6215434.76	6215434.85	0.2659	0.1540
Mercury	12307-09-07 18:43 G	6216348.14	6216348.28	6216348.41	0.2684	0.0394
Venus	12316-03-11 04:48 G	6219455.54	6219455.70	6219455.86	0.2653	0.0583
Mercury	12318-03-11 02:23 G	6220185.49	6220185.60	6220185.72	0.2661	0.0280
Mercury	12331-03-13 22:19 G	6224936.35	6224936.43	6224936.52	0.2661	0.1834
Mercury	12340-09-04 22:33 G	6228399.33	6228399.44	6228399.55	0.2683	0.1516
Mercury	12351-03-09 11:16 G	6232236.86	6232236.97	6232237.08	0.2659	0.1062
Mercury	12353-09-08 00:28 G	6233150.39	6233150.52	6233150.65	0.2684	0.0996

Mercury	12364-03-11 07:40 G	6236987.71	6236987.82	6236987.94	0.2661	0.0508
Mercury	12377-03-14 03:36 G	6241738.58	6241738.65	6241738.71	0.2659	0.2197
Mercury	12384-03-06 20:23 G	6244288.30	6244288.35	6244288.40	0.2656	0.2392
Mercury	12386-09-06 04:33 G	6245201.56	6245201.69	6245201.82	0.2684	0.0889
Mercury	12397-03-09 16:33 G	6249039.08	6249039.19	6249039.31	0.2660	0.0826
Mercury	12399-09-09 06:28 G	6249952.65	6249952.77	6249952.89	0.2683	0.1329
Mercury	12410-03-12 12:43 G	6253789.92	6253790.03	6253790.14	0.2662	0.0971
Mercury	12423-03-15 08:38 G	6258540.82	6258540.86	6258540.90	0.2658	0.2452
Mercury	12430-03-08 01:40 G	6261090.50	6261090.57	6261090.64	0.2656	0.2136
Mercury	12432-09-06 10:19 G	6262003.80	6262003.93	6262004.07	0.2684	0.0587
Mercury	12443-03-10 21:50 G	6265841.30	6265841.41	6265841.53	0.2660	0.0355
Mercury	12445-09-09 12:43 G	6266754.94	6266755.03	6266755.12	0.2683	0.1988
Venus	12453-09-08 09:07 G	6269675.74	6269675.88	6269676.03	0.2681	0.0702
Mercury	12456-03-12 18:00 G	6270592.14	6270592.25	6270592.35	0.2661	0.1177
Mercury	12465-09-04 14:38 G	6274055.05	6274055.11	6274055.18	0.2683	0.2331
Mercury	12476-03-08 06:43 G	6277892.69	6277892.78	6277892.87	0.2657	0.1721
Mercury	12478-09-07 16:19 G	6278806.04	6278806.18	6278806.31	0.2684	0.0067
Mercury	12489-03-11 03:07 G	6282643.51	6282643.63	6282643.75	0.2661	0.0102
Mercury	12491-09-10 18:43 G	6283557.22	6283557.28	6283557.35	0.2683	0.2330
Mercury	12502-03-14 23:16 G	6287394.38	6287394.47	6287394.56	0.2660	0.1655
Mercury	12511-09-06 20:38 G	6290857.26	6290857.36	6290857.45	0.2684	0.1919
Mercury	12522-03-10 12:00 G	6294694.90	6294695.00	6294695.10	0.2658	0.1371
Mercury	12524-09-08 22:19 G	6295608.29	6295608.43	6295608.57	0.2684	0.0411
Mercury	12535-03-13 08:09 G	6299445.73	6299445.84	6299445.96	0.2661	0.0340
Mercury	12548-03-15 04:19 G	6304196.60	6304196.68	6304196.77	0.2659	0.1896
Mercury	12557-09-07 02:23 G	6307659.48	6307659.60	6307659.71	0.2684	0.1396
Venus	12559-03-13 17:02 G	6308212.07	6308212.21	6308212.35	0.2658	0.1034
Mercury	12568-03-10 17:16 G	6311497.11	6311497.22	6311497.33	0.2659	0.1056
Mercury	12570-09-10 04:19 G	6312410.55	6312410.68	6312410.81	0.2684	0.0929
Mercury	12581-03-13 13:26 G	6316247.95	6316248.06	6316248.18	0.2661	0.0637

Mercury	12594-03-16 09:36 G	6320998.84	6320998.90	6320998.95	0.2659	0.2312
Mercury	12601-03-10 02:09 G	6323548.55	6323548.59	6323548.64	0.2654	0.2419
Mercury	12603-09-09 08:23 G	6324461.72	6324461.85	6324461.97	0.2684	0.1039
Mercury	12614-03-12 22:33 G	6328299.32	6328299.44	6328299.55	0.2660	0.0631
Mercury	12616-09-11 10:19 G	6329212.82	6329212.93	6329213.05	0.2684	0.1456
Mercury	12627-03-15 18:43 G	6333050.17	6333050.28	6333050.39	0.2660	0.0983
Mercury	12640-03-17 14:38 G	6337801.08	6337801.11	6337801.13	0.2659	0.2568
Mercury	12647-03-11 07:26 G	6340350.73	6340350.81	6340350.89	0.2656	0.1933
Mercury	12649-09-09 14:09 G	6341263.96	6341264.09	6341264.23	0.2684	0.0432
Mercury	12660-03-13 03:36 G	6345101.54	6345101.65	6345101.77	0.2660	0.0389
Mercury	12662-09-12 16:19 G	6346015.08	6346015.18	6346015.28	0.2684	0.1841
Mercury	12673-03-16 00:00 G	6349852.40	6349852.50	6349852.60	0.2660	0.1393
Mercury	12682-09-07 18:28 G	6353315.20	6353315.27	6353315.35	0.2682	0.2247
Mercury	12693-03-11 12:43 G	6357152.94	6357153.03	6357153.12	0.2658	0.1717
Mercury	12695-09-10 20:23 G	6358066.21	6358066.35	6358066.48	0.2685	0.0107
Venus	12696-09-10 02:23 G	6358431.43	6358431.60	6358431.76	0.2673	0.0127
Mercury	12706-03-15 08:52 G	6361903.75	6361903.87	6361903.99	0.2660	0.0095
Mercury	12708-09-13 22:19 G	6362817.37	6362817.43	6362817.48	0.2683	0.2436
Mercury	12719-03-18 05:02 G	6366654.62	6366654.71	6366654.80	0.2660	0.1632
Mercury	12728-09-09 00:28 G	6370117.43	6370117.52	6370117.61	0.2683	0.1940
Mercury	12739-03-13 17:45 G	6373955.14	6373955.24	6373955.35	0.2658	0.1246
Mercury	12741-09-12 02:09 G	6374868.46	6374868.59	6374868.72	0.2685	0.0536
Mercury	12752-03-15 14:09 G	6378705.98	6378706.09	6378706.21	0.2660	0.0338
Mercury	12765-03-18 10:04 G	6383456.85	6383456.92	6383457.00	0.2660	0.2079
Mercury	12772-03-11 02:52 G	6386006.60	6386006.62	6386006.63	0.2654	0.2626
Mercury	12774-09-10 06:28 G	6386919.65	6386919.77	6386919.88	0.2684	0.1377
Mercury	12785-03-13 23:02 G	6390757.35	6390757.46	6390757.57	0.2658	0.0992
Mercury	12787-09-13 08:09 G	6391670.71	6391670.84	6391670.97	0.2685	0.0837
Mercury	12798-03-16 19:26 G	6395508.20	6395508.31	6395508.42	0.2661	0.0807
Venus	12802-03-15 11:02 G	6396967.80	6396967.96	6396968.13	0.2648	0.0493

Mercury	12811-03-19 15:21 G	6400259.08	6400259.14	6400259.20	0.2659	0.2292
Mercury	12818-03-12 07:55 G	6402808.77	6402808.83	6402808.89	0.2655	0.2259
Mercury	12820-09-10 12:14 G	6403721.88	6403722.01	6403722.14	0.2685	0.0957
Mercury	12831-03-15 04:19 G	6407559.56	6407559.68	6407559.80	0.2659	0.0567
Mercury	12833-09-13 13:55 G	6408472.97	6408473.08	6408473.20	0.2684	0.1452
Mercury	12844-03-17 00:28 G	6412310.42	6412310.52	6412310.63	0.2661	0.1037
Mercury	12864-03-12 13:11 G	6419610.97	6419611.05	6419611.13	0.2655	0.1963
Mercury	12866-09-11 18:14 G	6420524.12	6420524.26	6420524.39	0.2685	0.0520
Mercury	12877-03-15 09:36 G	6424361.78	6424361.90	6424362.02	0.2660	0.0217
Mercury	12879-09-14 20:09 G	6425275.24	6425275.34	6425275.44	0.2684	0.1869
Mercury	12890-03-18 05:45 G	6429112.64	6429112.74	6429112.84	0.2660	0.1461
Mercury	12899-09-09 22:48 G	6432575.39	6432575.45	6432575.51	0.2684	0.2364
Mercury	12910-03-14 18:14 G	6436413.17	6436413.26	6436413.36	0.2656	0.1533
Mercury	12912-09-13 00:00 G	6437326.36	6437326.50	6437326.64	0.2685	0.0011
Mercury	12923-03-17 14:38 G	6441164.00	6441164.11	6441164.23	0.2660	0.0137
Mercury	12925-09-16 02:09 G	6442077.53	6442077.59	6442077.66	0.2684	0.2389
Mercury	12936-03-19 11:02 G	6445914.87	6445914.96	6445915.05	0.2659	0.1774
Venus	12939-09-13 04:33 G	6447187.54	6447187.69	6447187.83	0.2686	0.0498
Mercury	12945-09-11 04:33 G	6449377.59	6449377.69	6449377.79	0.2685	0.1760
Mercury	12956-03-14 23:45 G	6453215.38	6453215.49	6453215.59	0.2657	0.1273
Mercury	12958-09-14 06:00 G	6454128.62	6454128.75	6454128.89	0.2685	0.0400
Mercury	12969-03-17 19:55 G	6457966.21	6457966.33	6457966.45	0.2660	0.0504
Mercury	12982-03-20 16:19 G	6462717.11	6462717.18	6462717.25	0.2658	0.2111
Mercury	12989-03-13 08:23 G	6465266.84	6465266.85	6465266.87	0.2652	0.2617
Mercury	12991-09-12 10:19 G	6466179.82	6466179.93	6466180.04	0.2684	0.1499

14TH MILLENNIUM CE

This is a list of transits visible from Moon in the 14th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	13002-03-17 04:48	G	6470017.59	6470017.70	6470017.82	0.2659	0.0784	
Mercury	13004-09-15 12:00	G	6470930.88	6470931.00	6470931.13	0.2685	0.1017	
Mercury	13015-03-20 01:11	G	6474768.44	6474768.55	6474768.66	0.2660	0.0773	
Mercury	13028-03-21 21:21	G	6479519.35	6479519.39	6479519.43	0.2659	0.2498	
Mercury	13035-03-15 13:40	G	6482069.00	6482069.07	6482069.14	0.2653	0.2140	
Mercury	13037-09-13 16:04	G	6482982.04	6482982.17	6482982.30	0.2684	0.0872	
Venus	13045-03-17 18:28	G	6485724.13	6485724.27	6485724.42	0.2659	0.0538	
Mercury	13048-03-17 10:04	G	6486819.80	6486819.92	6486820.04	0.2659	0.0573	
Mercury	13050-09-16 18:14	G	6487733.14	6487733.26	6487733.37	0.2685	0.1333	
Mercury	13061-03-20 06:28	G	6491570.67	6491570.77	6491570.87	0.2659	0.1248	
Mercury	13081-03-15 18:57	G	6498871.20	6498871.29	6498871.37	0.2655	0.1863	
Mercury	13083-09-14 22:04	G	6499784.29	6499784.42	6499784.56	0.2685	0.0543	
Mercury	13094-03-18 15:07	G	6503622.02	6503622.13	6503622.25	0.2659	0.0134	
Mercury	13096-09-17 00:00	G	6504535.41	6504535.50	6504535.59	0.2685	0.1970	
Mercury	13107-03-22 11:45	G	6508372.89	6508372.99	6508373.09	0.2660	0.1473	
Mercury	13116-09-13 02:38	G	6511835.54	6511835.61	6511835.68	0.2683	0.2296	
Mercury	13127-03-18 00:14	G	6515673.41	6515673.51	6515673.60	0.2657	0.1477	
Mercury	13129-09-16 04:04	G	6516586.54	6516586.67	6516586.81	0.2686	0.0061	
Mercury	13140-03-19 20:38	G	6520424.24	6520424.36	6520424.48	0.2659	0.0180	
Mercury	13142-09-19 06:00	G	6521337.67	6521337.75	6521337.82	0.2684	0.2278	
Mercury	13153-03-22 16:48	G	6525175.12	6525175.20	6525175.28	0.2660	0.1945	
Mercury	13162-09-14 08:38	G	6528637.76	6528637.86	6528637.95	0.2684	0.1854	

Mercury	13173-03-18 05:16 G	6532475.61	6532475.72	6532475.83	0.2657	0.1131
Mercury	13175-09-17 10:04 G	6533388.78	6533388.92	6533389.05	0.2686	0.0444
Venus	13182-09-15 06:14 G	6535943.59	6535943.76	6535943.93	0.2674	0.0100
Mercury	13186-03-21 01:55 G	6537226.46	6537226.58	6537226.69	0.2659	0.0598
Mercury	13199-03-23 22:04 G	6541977.35	6541977.42	6541977.49	0.2659	0.2158
Mercury	13206-03-16 14:09 G	6544527.04	6544527.09	6544527.14	0.2653	0.2403
Mercury	13208-09-14 14:23 G	6545439.99	6545440.10	6545440.22	0.2685	0.1320
Mercury	13219-03-19 10:33 G	6549277.83	6549277.94	6549278.05	0.2657	0.0799
Mercury	13221-09-17 15:50 G	6550191.03	6550191.16	6550191.29	0.2686	0.0921
Mercury	13232-03-21 07:11 G	6554028.69	6554028.80	6554028.91	0.2660	0.0933
Mercury	13245-03-24 03:07 G	6558779.61	6558779.63	6558779.66	0.2658	0.2589
Mercury	13252-03-16 19:26 G	6561329.24	6561329.31	6561329.37	0.2654	0.2189
Mercury	13254-09-15 20:24 G	6562242.22	6562242.35	6562242.48	0.2686	0.0987
Mercury	13265-03-19 15:50 G	6566080.04	6566080.16	6566080.28	0.2658	0.0371
Mercury	13267-09-18 21:50 G	6566993.29	6566993.41	6566993.52	0.2685	0.1427
Mercury	13278-03-22 12:14 G	6570830.91	6570831.01	6570831.12	0.2660	0.1257
Venus	13288-03-18 19:40 G	6574480.15	6574480.32	6574480.48	0.2645	0.0396
Mercury	13298-03-18 00:28 G	6578131.43	6578131.52	6578131.62	0.2654	0.1691
Mercury	13300-09-17 02:09 G	6579044.45	6579044.59	6579044.72	0.2686	0.0387
Mercury	13311-03-21 21:07 G	6582882.26	6582882.38	6582882.50	0.2659	0.0131
Mercury	13313-09-20 03:50 G	6583795.57	6583795.66	6583795.76	0.2685	0.1841
Mercury	13324-03-23 17:31 G	6587633.13	6587633.23	6587633.32	0.2659	0.1648
Mercury	13333-09-15 06:57 G	6591095.71	6591095.79	6591095.87	0.2684	0.2170
Mercury	13344-03-19 05:45 G	6594933.64	6594933.74	6594933.84	0.2655	0.1467
Mercury	13346-09-18 07:55 G	6595846.69	6595846.83	6595846.97	0.2686	0.0102
Mercury	13357-03-22 02:24 G	6599684.48	6599684.60	6599684.72	0.2660	0.0378
Mercury	13359-09-21 09:50 G	6600597.86	6600597.91	6600597.96	0.2685	0.2455
Mercury	13370-03-24 22:48 G	6604435.37	6604435.45	6604435.53	0.2659	0.1924
Mercury	13379-09-16 12:43 G	6607897.93	6607898.03	6607898.13	0.2685	0.1855
Mercury	13390-03-20 11:16 G	6611735.85	6611735.97	6611736.08	0.2656	0.0984

Mercury	13392-09-18 13:55 G	6612648.95	6612649.08	6612649.21	0.2686	0.0541
Mercury	13403-03-24 07:40 G	6616486.70	6616486.82	6616486.93	0.2659	0.0594
Mercury	13416-03-26 03:50 G	6621237.62	6621237.66	6621237.71	0.2658	0.2391
Venus	13417-09-19 07:40 G	6621779.73	6621779.82	6621779.91	0.2680	0.2172
Mercury	13423-03-19 19:55 G	6623787.28	6623787.33	6623787.38	0.2651	0.2368
Venus	13425-09-16 23:45 G	6624699.35	6624699.49	6624699.63	0.2686	0.1076
Mercury	13425-09-17 18:28 G	6624700.15	6624700.27	6624700.38	0.2685	0.1336
Mercury	13436-03-21 16:19 G	6628538.07	6628538.18	6628538.30	0.2658	0.0716
Mercury	13438-09-20 19:55 G	6629451.20	6629451.33	6629451.46	0.2686	0.0888
Mercury	13449-03-24 12:43 G	6633288.93	6633289.03	6633289.14	0.2659	0.1073
Mercury	13462-03-27 09:07 G	6638039.86	6638039.88	6638039.90	0.2658	0.2592
Mercury	13469-03-20 01:12 G	6640589.47	6640589.55	6640589.63	0.2653	0.2010
Mercury	13471-09-19 00:14 G	6641502.38	6641502.51	6641502.64	0.2685	0.0938
Mercury	13482-03-22 21:36 G	6645340.28	6645340.40	6645340.52	0.2658	0.0299
Mercury	13484-09-21 01:55 G	6646253.46	6646253.58	6646253.69	0.2686	0.1466
Mercury	13495-03-25 18:14 G	6650091.15	6650091.26	6650091.36	0.2659	0.1338
Mercury	13504-09-17 05:16 G	6653553.69	6653553.72	6653553.75	0.2684	0.2585
Mercury	13515-03-22 06:28 G	6657391.68	6657391.77	6657391.86	0.2655	0.1703
Mercury	13517-09-20 06:14 G	6658304.63	6658304.76	6658304.89	0.2686	0.0463
Mercury	13528-03-24 02:52 G	6662142.50	6662142.62	6662142.74	0.2658	0.0066
Mercury	13530-09-23 07:40 G	6663055.72	6663055.82	6663055.92	0.2686	0.1843
Venus	13531-03-22 19:12 G	6663236.15	6663236.30	6663236.45	0.2657	0.0276
Mercury	13541-03-26 23:31 G	6666893.39	6666893.48	6666893.56	0.2659	0.1762
Mercury	13550-09-18 11:02 G	6670355.89	6670355.96	6670356.03	0.2684	0.2300
Mercury	13561-03-22 11:31 G	6674193.88	6674193.98	6674194.09	0.2656	0.1254
Mercury	13563-09-21 12:14 G	6675106.87	6675107.01	6675107.14	0.2687	0.0085
Mercury	13574-03-25 08:09 G	6678944.72	6678944.84	6678944.96	0.2658	0.0377
Mercury	13576-09-23 13:40 G	6679858.01	6679858.07	6679858.13	0.2685	0.2363
Mercury	13587-03-28 04:33 G	6683695.62	6683695.69	6683695.76	0.2659	0.2057
Mercury	13594-03-20 20:24 G	6686245.32	6686245.35	6686245.38	0.2651	0.2573

Mercury	13596-09-18 16:48 G	6687158.10	6687158.20	6687158.30	0.2684	0.1704
Mercury	13607-03-23 16:48 G	6690996.09	6690996.20	6690996.31	0.2656	0.1024
Mercury	13609-09-21 18:00 G	6691909.12	6691909.25	6691909.38	0.2687	0.0415
Mercury	13620-03-25 13:26 G	6695746.95	6695747.06	6695747.17	0.2659	0.0804
Mercury	13633-03-28 09:50 G	6700497.86	6700497.91	6700497.95	0.2659	0.2405
Mercury	13640-03-21 01:40 G	6703047.51	6703047.57	6703047.62	0.2653	0.2351
Mercury	13642-09-19 22:33 G	6703960.33	6703960.44	6703960.56	0.2686	0.1412
Mercury	13653-03-23 22:04 G	6707798.30	6707798.42	6707798.54	0.2656	0.0532
Mercury	13655-09-22 23:45 G	6708711.37	6708711.49	6708711.62	0.2687	0.1010
Mercury	13666-03-26 18:43 G	6712549.17	6712549.28	6712549.39	0.2659	0.1060
Venus	13668-09-18 08:38 G	6713455.70	6713455.86	6713456.02	0.2678	0.0761
Mercury	13686-03-22 06:43 G	6719849.70	6719849.78	6719849.87	0.2653	0.1890
Mercury	13688-09-20 04:33 G	6720762.56	6720762.69	6720762.82	0.2687	0.0804
Mercury	13699-03-25 03:21 G	6724600.52	6724600.64	6724600.76	0.2657	0.0290
Mercury	13701-09-24 05:45 G	6725513.62	6725513.74	6725513.86	0.2686	0.1328
Mercury	13712-03-28 00:00 G	6729351.40	6729351.50	6729351.59	0.2659	0.1532
Mercury	13721-09-19 09:36 G	6732813.87	6732813.90	6732813.93	0.2683	0.2599
Mercury	13732-03-23 12:00 G	6736651.90	6736652.00	6736652.09	0.2653	0.1630
Mercury	13734-09-22 10:19 G	6737564.80	6737564.93	6737565.06	0.2687	0.0500
Mercury	13745-03-26 08:38 G	6741402.74	6741402.86	6741402.98	0.2658	0.0205
Mercury	13747-09-25 11:45 G	6742315.90	6742315.99	6742316.08	0.2685	0.1978
Mercury	13758-03-29 05:02 G	6746153.63	6746153.71	6746153.80	0.2659	0.1751
Mercury	13767-09-20 15:21 G	6749616.06	6749616.14	6749616.21	0.2685	0.2171
Venus	13774-03-24 04:33 G	6751992.55	6751992.69	6751992.84	0.2648	0.1063
Mercury	13778-03-24 17:16 G	6753454.11	6753454.22	6753454.33	0.2654	0.1206
Mercury	13780-09-22 16:04 G	6754367.03	6754367.17	6754367.30	0.2686	0.0067
Mercury	13791-03-27 13:55 G	6758204.96	6758205.08	6758205.20	0.2659	0.0446
Mercury	13793-09-25 17:45 G	6759118.17	6759118.24	6759118.31	0.2686	0.2306
Mercury	13804-03-30 10:19 G	6762955.87	6762955.93	6762956.00	0.2658	0.2230
Mercury	13811-03-24 01:55 G	6765505.57	6765505.58	6765505.60	0.2650	0.2620

Mercury	13813-09-21 21:07 G	6766418.28	6766418.38	6766418.48	0.2686	0.1792
Mercury	13824-03-25 22:33 G	6770256.33	6770256.44	6770256.56	0.2656	0.0845
Mercury	13826-09-24 22:04 G	6771169.29	6771169.42	6771169.55	0.2686	0.0472
Mercury	13837-03-28 19:12 G	6775007.18	6775007.30	6775007.41	0.2659	0.0876
Mercury	13850-03-31 15:36 G	6779758.11	6779758.15	6779758.19	0.2657	0.2477
Mercury	13857-03-24 07:12 G	6782307.73	6782307.80	6782307.87	0.2650	0.2159
Mercury	13859-09-23 02:38 G	6783220.50	6783220.61	6783220.73	0.2686	0.1267
Mercury	13870-03-27 03:50 G	6787058.54	6787058.66	6787058.78	0.2657	0.0532
Mercury	13872-09-25 04:04 G	6787971.54	6787971.67	6787971.79	0.2687	0.0952
Mercury	13883-03-30 00:28 G	6791809.41	6791809.52	6791809.62	0.2658	0.1195
Mercury	13903-03-26 12:28 G	6799109.94	6799110.02	6799110.10	0.2652	0.1919
Venus	13903-09-24 07:40 G	6799291.71	6799291.82	6799291.93	0.2678	0.1969
Mercury	13905-09-24 08:38 G	6800022.73	6800022.86	6800022.98	0.2686	0.0935
Venus	13911-09-21 20:52 G	6802211.25	6802211.37	6802211.50	0.2684	0.1591
Mercury	13916-03-28 09:07 G	6803860.76	6803860.88	6803861.00	0.2658	0.0108
Mercury	13918-09-27 09:50 G	6804773.80	6804773.91	6804774.03	0.2687	0.1483
Mercury	13929-03-31 05:45 G	6808611.64	6808611.74	6808611.84	0.2658	0.1548
Mercury	13938-09-22 13:40 G	6812074.07	6812074.07	6812074.08	0.2684	0.2679
Mercury	13949-03-26 17:45 G	6815912.14	6815912.24	6815912.34	0.2654	0.1418
Mercury	13951-09-25 14:24 G	6816824.97	6816825.10	6816825.24	0.2686	0.0336
Mercury	13962-03-29 14:24 G	6820662.98	6820663.10	6820663.22	0.2657	0.0174
Mercury	13964-09-27 15:36 G	6821576.06	6821576.15	6821576.25	0.2687	0.1832
Mercury	13975-04-01 11:02 G	6825413.88	6825413.96	6825414.04	0.2658	0.1967
Mercury	13984-09-22 19:26 G	6828876.23	6828876.31	6828876.39	0.2684	0.2095
Mercury	13995-03-27 23:02 G	6832714.35	6832714.46	6832714.57	0.2655	0.1198
Mercury	13997-09-25 20:24 G	6833627.22	6833627.35	6833627.48	0.2687	0.0026

15TH MILLENNIUM CE

This is a list of transits visible from Moon in the 15th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	14008-03-29 19:40	G	6837465.20	6837465.32	6837465.44	0.2658	0.0648	
Mercury	14010-09-28 21:36	G	6838378.34	6838378.40	6838378.45	0.2686	0.2421	
Venus	14017-03-25 21:36	G	6840748.24	6840748.40	6840748.56	0.2651	0.0301	
Mercury	14021-04-01 16:19	G	6842216.11	6842216.18	6842216.24	0.2659	0.2217	
Mercury	14028-03-25 07:40	G	6844765.78	6844765.82	6844765.86	0.2650	0.2501	
Mercury	14030-09-24 01:12	G	6845678.45	6845678.55	6845678.65	0.2685	0.1783	
Mercury	14041-03-28 04:04	G	6849516.56	6849516.67	6849516.79	0.2655	0.0726	
Mercury	14043-09-27 02:09	G	6850429.46	6850429.59	6850429.72	0.2688	0.0584	
Mercury	14054-03-31 00:57	G	6854267.43	6854267.54	6854267.66	0.2658	0.0896	
Mercury	14074-03-26 12:57	G	6861567.96	6861568.04	6861568.11	0.2652	0.2134	
Mercury	14076-09-24 06:57	G	6862480.68	6862480.79	6862480.91	0.2686	0.1259	
Mercury	14087-03-29 09:36	G	6866318.78	6866318.90	6866319.01	0.2656	0.0474	
Mercury	14089-09-27 07:55	G	6867231.70	6867231.83	6867231.96	0.2687	0.0883	
Mercury	14100-04-01 06:14	G	6871069.66	6871069.76	6871069.86	0.2659	0.1372	
Mercury	14120-03-27 18:00	G	6878370.16	6878370.25	6878370.34	0.2652	0.1751	
Mercury	14122-09-26 12:57	G	6879282.91	6879283.04	6879283.16	0.2687	0.0832	
Mercury	14133-03-30 14:52	G	6883121.00	6883121.12	6883121.24	0.2656	0.0063	
Mercury	14135-09-29 13:40	G	6884033.96	6884034.07	6884034.19	0.2687	0.1468	
Mercury	14146-04-02 11:31	G	6887871.88	6887871.98	6887872.07	0.2659	0.1603	
Venus	14146-09-25 15:36	G	6888048.10	6888048.15	6888048.19	0.2687	0.2556	
Venus	14154-09-23 08:09	G	6890967.70	6890967.84	6890967.98	0.2683	0.1252	
Mercury	14155-09-24 18:00	G	6891334.21	6891334.25	6891334.30	0.2684	0.2493	

Mercury	14166-03-28 23:16 G	6895172.37	6895172.47	6895172.57	0.2653	0.1451
Mercury	14168-09-26 18:28 G	6896085.14	6896085.27	6896085.41	0.2687	0.0425
Mercury	14179-03-31 20:09 G	6899923.22	6899923.34	6899923.46	0.2658	0.0334
Mercury	14181-09-29 19:55 G	6900836.23	6900836.33	6900836.42	0.2686	0.1895
Mercury	14192-04-02 16:33 G	6904674.12	6904674.19	6904674.27	0.2658	0.2044
Mercury	14201-09-26 00:00 G	6908136.42	6908136.50	6908136.57	0.2686	0.2200
Mercury	14212-03-30 04:33 G	6911974.58	6911974.69	6911974.80	0.2653	0.1003
Mercury	14214-09-29 00:14 G	6912887.38	6912887.51	6912887.65	0.2687	0.0105
Mercury	14225-04-02 01:26 G	6916725.44	6916725.56	6916725.67	0.2658	0.0653
Mercury	14227-10-02 01:40 G	6917638.51	6917638.57	6917638.64	0.2686	0.2370
Mercury	14238-04-04 22:04 G	6921476.37	6921476.42	6921476.47	0.2657	0.2363
Mercury	14245-03-28 13:12 G	6924025.99	6924026.05	6924026.11	0.2649	0.2331
Mercury	14247-09-27 05:31 G	6924938.62	6924938.73	6924938.83	0.2686	0.1610
Mercury	14258-03-31 10:04 G	6928776.80	6928776.92	6928777.03	0.2655	0.0748
Venus	14260-03-28 10:33 G	6929504.79	6929504.94	6929505.09	0.2652	0.0793
Mercury	14260-09-29 06:14 G	6929689.63	6929689.76	6929689.89	0.2687	0.0458
Mercury	14271-04-03 06:28 G	6933527.66	6933527.77	6933527.88	0.2658	0.1072
Mercury	14291-03-29 18:28 G	6940828.20	6940828.27	6940828.34	0.2650	0.2109
Mercury	14293-09-27 11:16 G	6941740.85	6941740.97	6941741.08	0.2686	0.1361
Mercury	14304-04-01 15:07 G	6945579.01	6945579.13	6945579.26	0.2656	0.0260
Mercury	14306-10-01 12:14 G	6946491.89	6946492.01	6946492.13	0.2687	0.1066
Mercury	14317-04-04 12:00 G	6950329.89	6950330.00	6950330.10	0.2658	0.1343
Mercury	14337-03-30 23:45 G	6957630.39	6957630.49	6957630.59	0.2651	0.1629
Mercury	14339-09-29 16:48 G	6958543.08	6958543.20	6958543.33	0.2686	0.0761
Mercury	14350-04-02 20:24 G	6962381.23	6962381.35	6962381.47	0.2657	0.0075
Mercury	14352-10-01 18:00 G	6963294.14	6963294.25	6963294.37	0.2688	0.1361
Mercury	14363-04-05 17:16 G	6967132.13	6967132.22	6967132.31	0.2658	0.1828
Mercury	14372-09-26 22:19 G	6970594.39	6970594.43	6970594.47	0.2685	0.2518
Mercury	14383-04-01 05:02 G	6974432.60	6974432.71	6974432.81	0.2653	0.1342
Mercury	14385-09-29 22:48 G	6975345.32	6975345.45	6975345.58	0.2687	0.0426

Venus	14389-09-27 10:04 G	6976803.82	6976803.92	6976804.02	0.2676	0.2165
Mercury	14396-04-03 01:40 G	6979183.45	6979183.57	6979183.69	0.2657	0.0457
Venus	14397-09-24 20:24 G	6979723.29	6979723.35	6979723.41	0.2681	0.2445
Mercury	14398-10-02 23:45 G	6980096.40	6980096.49	6980096.58	0.2687	0.1972
Mercury	14409-04-05 22:33 G	6983934.37	6983934.44	6983934.52	0.2658	0.2054
Mercury	14418-09-28 04:04 G	6987396.59	6987396.67	6987396.75	0.2685	0.2104
Mercury	14429-04-01 10:19 G	6991234.81	6991234.93	6991235.04	0.2654	0.0957
Mercury	14431-10-01 04:48 G	6992147.56	6992147.70	6992147.83	0.2688	0.0138
Mercury	14442-04-04 06:57 G	6995985.68	6995985.79	6995985.91	0.2657	0.0735
Mercury	14444-10-03 05:45 G	6996898.67	6996898.74	6996898.80	0.2687	0.2285
Mercury	14455-04-07 03:50 G	7000736.62	7000736.66	7000736.69	0.2658	0.2533
Mercury	14462-03-30 18:57 G	7003286.23	7003286.29	7003286.34	0.2649	0.2359
Mercury	14464-09-28 09:50 G	7004198.81	7004198.91	7004199.01	0.2685	0.1698
Mercury	14475-04-02 15:21 G	7008037.03	7008037.14	7008037.26	0.2655	0.0605
Mercury	14477-10-01 10:33 G	7008949.81	7008949.94	7008950.07	0.2688	0.0530
Mercury	14488-04-04 12:28 G	7012787.91	7012788.02	7012788.13	0.2658	0.1158
Venus	14503-03-31 02:52 G	7018260.46	7018260.62	7018260.78	0.2645	0.0220
Mercury	14508-04-01 00:00 G	7020088.42	7020088.50	7020088.59	0.2651	0.1893
Mercury	14510-09-30 15:36 G	7021001.03	7021001.15	7021001.27	0.2687	0.1172
Mercury	14521-04-03 20:52 G	7024839.24	7024839.37	7024839.49	0.2655	0.0279
Mercury	14523-10-03 16:04 G	7025752.05	7025752.17	7025752.30	0.2688	0.0971
Mercury	14534-04-06 17:45 G	7029590.14	7029590.24	7029590.34	0.2658	0.1500
Mercury	14554-04-02 05:16 G	7036890.63	7036890.72	7036890.81	0.2652	0.1676
Mercury	14556-09-30 21:21 G	7037803.26	7037803.39	7037803.52	0.2688	0.0867
Mercury	14567-04-05 02:09 G	7041641.47	7041641.59	7041641.71	0.2656	0.0181
Mercury	14569-10-03 22:04 G	7042554.31	7042554.42	7042554.53	0.2687	0.1470
Mercury	14580-04-06 22:48 G	7046392.37	7046392.45	7046392.54	0.2658	0.1833
Mercury	14589-09-29 02:52 G	7049854.58	7049854.62	7049854.65	0.2684	0.2562
Mercury	14600-04-03 10:33 G	7053692.83	7053692.94	7053693.05	0.2652	0.1173
Mercury	14602-10-03 02:52 G	7054605.49	7054605.62	7054605.76	0.2688	0.0287

Mercury	14613-04-06 07:26 G	7058443.69	7058443.81	7058443.93	0.2657	0.0454
Mercury	14615-10-06 04:04 G	7059356.57	7059356.67	7059356.76	0.2687	0.1853
Mercury	14626-04-09 04:04 G	7063194.61	7063194.67	7063194.74	0.2658	0.2234
Venus	14632-09-29 10:04 G	7065559.79	7065559.92	7065560.05	0.2689	0.1347
Mercury	14633-04-01 19:12 G	7065744.27	7065744.30	7065744.32	0.2649	0.2561
Mercury	14635-10-01 08:24 G	7066656.77	7066656.85	7066656.94	0.2686	0.2006
Venus	14640-09-27 04:19 G	7068479.56	7068479.68	7068479.80	0.2689	0.1692
Mercury	14646-04-04 15:50 G	7070495.05	7070495.16	7070495.27	0.2653	0.0941
Mercury	14648-10-03 08:38 G	7071407.73	7071407.86	7071408.00	0.2687	0.0077
Mercury	14659-04-07 12:43 G	7075245.92	7075246.03	7075246.14	0.2658	0.0933
Mercury	14661-10-06 09:50 G	7076158.86	7076158.91	7076158.96	0.2687	0.2460
Mercury	14672-04-09 09:36 G	7079996.86	7079996.90	7079996.93	0.2657	0.2511
Mercury	14679-04-03 00:14 G	7082546.45	7082546.51	7082546.57	0.2649	0.2268
Mercury	14681-10-01 14:09 G	7083458.98	7083459.09	7083459.19	0.2687	0.1692
Mercury	14692-04-04 21:07 G	7087297.26	7087297.38	7087297.50	0.2654	0.0456
Mercury	14694-10-04 14:38 G	7088209.98	7088210.11	7088210.24	0.2688	0.0611
Mercury	14705-04-08 18:00 G	7092048.14	7092048.25	7092048.36	0.2658	0.1149
Mercury	14725-04-04 05:31 G	7099348.65	7099348.73	7099348.82	0.2649	0.1869
Mercury	14727-10-03 19:40 G	7100261.20	7100261.32	7100261.44	0.2687	0.1193
Mercury	14738-04-07 02:24 G	7104099.48	7104099.60	7104099.73	0.2656	0.0195
Mercury	14740-10-05 20:24 G	7105012.23	7105012.35	7105012.48	0.2688	0.0956
Venus	14746-04-02 13:40 G	7107016.92	7107017.07	7107017.22	0.2654	0.0480
Mercury	14751-04-09 23:16 G	7108850.38	7108850.47	7108850.56	0.2657	0.1640
Venus	14754-03-31 08:24 G	7109936.77	7109936.85	7109936.92	0.2649	0.2297
Mercury	14771-04-05 10:48 G	7116150.85	7116150.95	7116151.05	0.2651	0.1502
Mercury	14773-10-04 01:26 G	7117063.44	7117063.56	7117063.69	0.2687	0.0788
Mercury	14784-04-07 07:40 G	7120901.70	7120901.82	7120901.94	0.2656	0.0240
Mercury	14786-10-07 02:24 G	7121814.49	7121814.60	7121814.71	0.2688	0.1504
Mercury	14797-04-10 04:48 G	7125652.61	7125652.70	7125652.78	0.2657	0.1916
Mercury	14806-10-02 07:12 G	7129114.74	7129114.80	7129114.85	0.2685	0.2390

Mercury	14817-04-05 16:19 G	7132953.07	7132953.18	7132953.28	0.2653	0.1195
Mercury	14819-10-05 07:26 G	7133865.67	7133865.81	7133865.94	0.2687	0.0363
Mercury	14830-04-08 12:57 G	7137703.92	7137704.04	7137704.16	0.2656	0.0571
Mercury	14832-10-07 08:09 G	7138616.74	7138616.84	7138616.93	0.2688	0.1888
Mercury	14843-04-11 10:04 G	7142454.86	7142454.92	7142454.97	0.2657	0.2338
Mercury	14850-04-04 00:43 G	7145004.50	7145004.53	7145004.55	0.2647	0.2578
Mercury	14852-10-02 12:43 G	7145916.95	7145917.03	7145917.11	0.2685	0.2125
Mercury	14863-04-06 21:21 G	7149755.28	7149755.39	7149755.51	0.2654	0.0728
Mercury	14865-10-05 13:12 G	7150667.91	7150668.05	7150668.18	0.2688	0.0188
Venus	14875-10-01 13:40 G	7154315.95	7154316.07	7154316.19	0.2678	0.1831
Mercury	14876-04-08 18:28 G	7154506.15	7154506.27	7154506.38	0.2657	0.0936
Mercury	14878-10-08 13:55 G	7155419.02	7155419.08	7155419.14	0.2687	0.2358
Mercury	14889-04-11 15:07 G	7159257.13	7159257.13	7159257.14	0.2658	0.2651
Mercury	14896-04-04 06:00 G	7161806.67	7161806.75	7161806.82	0.2649	0.2080
Mercury	14898-10-03 18:28 G	7162719.16	7162719.27	7162719.38	0.2686	0.1534
Mercury	14909-04-08 02:38 G	7166557.49	7166557.61	7166557.73	0.2654	0.0498
Mercury	14911-10-07 18:57 G	7167470.16	7167470.29	7167470.42	0.2689	0.0491
Mercury	14922-04-10 23:45 G	7171308.39	7171308.49	7171308.59	0.2657	0.1376
Mercury	14942-04-06 11:02 G	7178608.88	7178608.96	7178609.05	0.2651	0.1856
Mercury	14944-10-05 00:14 G	7179521.39	7179521.51	7179521.63	0.2687	0.1252
Mercury	14955-04-09 07:55 G	7183359.71	7183359.83	7183359.96	0.2654	0.0062
Mercury	14957-10-08 00:28 G	7184272.40	7184272.52	7184272.65	0.2688	0.1080
Mercury	14968-04-11 05:02 G	7188110.62	7188110.71	7188110.81	0.2658	0.1632
Mercury	14988-04-06 16:19 G	7195411.08	7195411.18	7195411.29	0.2651	0.1383
Venus	14989-04-03 11:02 G	7195772.79	7195772.96	7195773.12	0.2642	0.0495
Mercury	14990-10-06 06:00 G	7196323.62	7196323.75	7196323.87	0.2688	0.0686

16TH MILLENNIUM CE

This is a list of transits visible from Moon in the 16th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	15001-04-10 13:26	G	7200161.94	7200162.06	7200162.18	0.2655	0.0257	
Mercury	15003-10-10 06:28	G	7201074.65	7201074.77	7201074.88	0.2688	0.1380	
Mercury	15014-04-13 10:19	G	7204912.86	7204912.93	7204913.00	0.2658	0.2107	
Mercury	15023-10-05 11:31	G	7208374.93	7208374.98	7208375.04	0.2685	0.2406	
Mercury	15034-04-08 21:36	G	7212213.29	7212213.40	7212213.51	0.2651	0.1112	
Mercury	15036-10-07 11:31	G	7213125.85	7213125.98	7213126.11	0.2688	0.0377	
Mercury	15047-04-11 18:43	G	7216964.17	7216964.28	7216964.40	0.2657	0.0750	
Mercury	15049-10-10 12:14	G	7217876.93	7217877.01	7217877.10	0.2687	0.1998	
Mercury	15060-04-13 15:36	G	7221715.10	7221715.15	7221715.21	0.2657	0.2334	
Mercury	15067-04-07 06:00	G	7224264.70	7224264.75	7224264.80	0.2648	0.2402	
Mercury	15069-10-05 17:16	G	7225177.13	7225177.22	7225177.31	0.2687	0.1966	
Mercury	15080-04-09 02:52	G	7229015.51	7229015.62	7229015.74	0.2652	0.0690	
Mercury	15082-10-08 17:16	G	7229928.09	7229928.22	7229928.35	0.2688	0.0161	
Mercury	15093-04-12 00:00	G	7233766.39	7233766.50	7233766.61	0.2657	0.1007	
Mercury	15095-10-11 18:14	G	7234679.19	7234679.26	7234679.32	0.2688	0.2325	
Mercury	15113-04-08 11:16	G	7241066.90	7241066.97	7241067.05	0.2648	0.2131	
Mercury	15115-10-07 22:48	G	7241979.35	7241979.45	7241979.56	0.2687	0.1628	
Venus	15118-10-04 04:48	G	7243071.56	7243071.70	7243071.85	0.2688	0.0741	
Mercury	15126-04-11 08:24	G	7245817.73	7245817.85	7245817.97	0.2654	0.0319	
Mercury	15128-10-09 23:16	G	7246730.34	7246730.47	7246730.60	0.2688	0.0581	
Mercury	15139-04-14 05:16	G	7250568.62	7250568.72	7250568.82	0.2657	0.1435	
Mercury	15159-04-09 16:33	G	7257869.10	7257869.19	7257869.29	0.2649	0.1648	

Mercury	15161-10-08 04:33 G	7258781.57	7258781.69	7258781.81	0.2687	0.1108
Mercury	15172-04-11 13:40 G	7262619.95	7262620.07	7262620.19	0.2655	0.0009
Mercury	15174-10-11 05:02 G	7263532.59	7263532.71	7263532.83	0.2688	0.1013
Mercury	15185-04-14 10:33 G	7267370.85	7267370.94	7267371.03	0.2657	0.1770
Mercury	15205-04-09 22:04 G	7274671.31	7274671.42	7274671.52	0.2650	0.1408
Mercury	15207-10-09 10:19 G	7275583.80	7275583.93	7275584.05	0.2687	0.0804
Mercury	15218-04-12 18:57 G	7279422.17	7279422.29	7279422.41	0.2656	0.0458
Mercury	15220-10-11 10:48 G	7280334.84	7280334.95	7280335.06	0.2689	0.1536
Mercury	15231-04-15 16:04 G	7284173.10	7284173.17	7284173.24	0.2657	0.2132
Venus	15232-04-05 15:07 G	7284528.99	7284529.13	7284529.28	0.2654	0.0560
Venus	15240-04-03 11:31 G	7287448.91	7287448.98	7287449.05	0.2652	0.2317
Mercury	15240-10-06 16:04 G	7287635.12	7287635.17	7287635.22	0.2686	0.2463
Mercury	15251-04-11 03:21 G	7291473.52	7291473.64	7291473.75	0.2652	0.0901
Mercury	15253-10-09 16:04 G	7292386.04	7292386.17	7292386.30	0.2688	0.0206
Mercury	15264-04-13 00:14 G	7296224.39	7296224.51	7296224.63	0.2656	0.0711
Mercury	15266-10-12 16:33 G	7297137.09	7297137.19	7297137.28	0.2688	0.1859
Mercury	15277-04-15 21:21 G	7300975.36	7300975.39	7300975.42	0.2657	0.2562
Mercury	15284-04-08 11:31 G	7303524.93	7303524.98	7303525.05	0.2646	0.2297
Mercury	15286-10-07 21:36 G	7304437.31	7304437.40	7304437.49	0.2685	0.1909
Mercury	15297-04-11 08:38 G	7308275.74	7308275.86	7308275.98	0.2653	0.0680
Mercury	15299-10-10 21:50 G	7309188.28	7309188.41	7309188.54	0.2689	0.0088
Mercury	15310-04-15 05:45 G	7313026.63	7313026.74	7313026.84	0.2656	0.1210
Mercury	15312-10-13 22:19 G	7313939.37	7313939.43	7313939.48	0.2688	0.2448
Mercury	15330-04-10 17:02 G	7320327.13	7320327.21	7320327.29	0.2648	0.2000
Mercury	15332-10-09 03:21 G	7321239.53	7321239.64	7321239.74	0.2686	0.1592
Mercury	15343-04-13 13:55 G	7325077.95	7325078.08	7325078.20	0.2653	0.0200
Mercury	15345-10-12 03:21 G	7325990.52	7325990.64	7325990.77	0.2689	0.0673
Mercury	15356-04-15 11:02 G	7329828.86	7329828.96	7329829.06	0.2657	0.1458
Venus	15361-10-05 14:52 G	7331827.97	7331828.12	7331828.27	0.2683	0.1070
Mercury	15376-04-10 22:04 G	7337129.33	7337129.42	7337129.52	0.2650	0.1634

Mercury	15378-10-10 09:07 G	7338041.76	7338041.88	7338042.00	0.2688	0.1101
Mercury	15389-04-13 19:12 G	7341880.18	7341880.30	7341880.42	0.2654	0.0080
Mercury	15391-10-13 09:07 G	7342792.76	7342792.88	7342793.01	0.2689	0.0974
Mercury	15402-04-17 16:19 G	7346631.10	7346631.18	7346631.26	0.2657	0.1951
Mercury	15422-04-13 03:21 G	7353931.53	7353931.64	7353931.75	0.2651	0.1235
Mercury	15424-10-11 14:52 G	7354843.99	7354844.12	7354844.24	0.2689	0.0670
Mercury	15435-04-16 00:28 G	7358682.40	7358682.52	7358682.64	0.2655	0.0527
Mercury	15437-10-14 14:52 G	7359595.02	7359595.12	7359595.23	0.2688	0.1528
Mercury	15448-04-17 21:36 G	7363433.33	7363433.40	7363433.47	0.2657	0.2186
Mercury	15455-04-11 11:45 G	7365982.96	7365982.99	7365983.02	0.2646	0.2555
Mercury	15457-10-09 20:38 G	7366895.29	7366895.36	7366895.43	0.2685	0.2270
Mercury	15468-04-13 08:38 G	7370733.75	7370733.86	7370733.98	0.2651	0.0936
Mercury	15470-10-12 20:24 G	7371646.22	7371646.35	7371646.48	0.2689	0.0301
Venus	15475-04-08 20:52 G	7373285.21	7373285.37	7373285.53	0.2642	0.0601
Mercury	15481-04-16 06:00 G	7375484.63	7375484.75	7375484.86	0.2656	0.0891
Mercury	15483-10-15 20:52 G	7376397.28	7376397.37	7376397.46	0.2688	0.1957
Mercury	15494-04-19 02:52 G	7380235.61	7380235.62	7380235.64	0.2657	0.2629
Mercury	15501-04-12 17:02 G	7382785.16	7382785.21	7382785.27	0.2648	0.2342
Mercury	15503-10-12 02:24 G	7383697.51	7383697.60	7383697.68	0.2687	0.2003
Mercury	15514-04-15 14:09 G	7387535.97	7387536.09	7387536.21	0.2652	0.0466
Mercury	15516-10-14 01:55 G	7388448.45	7388448.58	7388448.72	0.2688	0.0226
Mercury	15527-04-18 11:16 G	7392286.86	7392286.97	7392287.08	0.2657	0.1212
Mercury	15529-10-17 02:38 G	7393199.55	7393199.61	7393199.67	0.2688	0.2388
Mercury	15547-04-13 22:19 G	7399587.34	7399587.43	7399587.52	0.2648	0.1830
Mercury	15549-10-12 07:40 G	7400499.71	7400499.82	7400499.93	0.2688	0.1434
Mercury	15560-04-15 19:26 G	7404338.19	7404338.31	7404338.44	0.2654	0.0219
Mercury	15562-10-15 07:55 G	7405250.70	7405250.83	7405250.96	0.2688	0.0557
Mercury	15573-04-18 16:33 G	7409089.10	7409089.19	7409089.28	0.2657	0.1646
Mercury	15593-04-14 03:36 G	7416389.55	7416389.65	7416389.75	0.2648	0.1605
Mercury	15595-10-13 13:26 G	7417301.94	7417302.06	7417302.18	0.2687	0.1182

Venus	15604-10-07 02:24 G	7420583.44	7420583.60	7420583.76	0.2684	0.0186
Mercury	15606-04-17 00:43 G	7421140.41	7421140.53	7421140.66	0.2655	0.0311
Mercury	15608-10-15 13:40 G	7422052.95	7422053.07	7422053.19	0.2689	0.1152
Mercury	15619-04-19 21:50 G	7425891.33	7425891.41	7425891.50	0.2656	0.1919
Mercury	15639-04-15 08:52 G	7433191.76	7433191.87	7433191.99	0.2650	0.1121
Mercury	15641-10-13 18:57 G	7434104.17	7434104.29	7434104.42	0.2688	0.0609
Mercury	15652-04-17 06:00 G	7437942.63	7437942.75	7437942.87	0.2655	0.0524
Mercury	15654-10-16 19:26 G	7438855.20	7438855.31	7438855.42	0.2689	0.1433
Mercury	15665-04-20 03:21 G	7442693.59	7442693.64	7442693.69	0.2656	0.2417
Mercury	15672-04-12 17:16 G	7445243.19	7445243.22	7445243.25	0.2645	0.2553
Mercury	15674-10-12 01:12 G	7446155.48	7446155.55	7446155.61	0.2686	0.2301
Mercury	15685-04-15 14:24 G	7449993.98	7449994.10	7449994.22	0.2652	0.0817
Mercury	15687-10-15 00:57 G	7450906.41	7450906.54	7450906.67	0.2688	0.0267
Mercury	15698-04-18 11:16 G	7454744.86	7454744.97	7454745.09	0.2655	0.1020
Mercury	15700-10-18 01:12 G	7455657.46	7455657.55	7455657.63	0.2689	0.2031
Mercury	15711-04-22 08:38 G	7459495.86	7459495.86	7459495.87	0.2657	0.2649
Venus	15718-04-10 16:33 G	7462041.04	7462041.19	7462041.34	0.2651	0.0504
Mercury	15718-04-14 22:33 G	7462045.37	7462045.44	7462045.51	0.2646	0.2150
Mercury	15720-10-13 06:43 G	7462957.69	7462957.78	7462957.87	0.2686	0.1884
Mercury	15731-04-17 19:40 G	7466796.19	7466796.32	7466796.44	0.2653	0.0436
Mercury	15733-10-16 06:43 G	7467708.65	7467708.78	7467708.91	0.2689	0.0241
Mercury	15744-04-19 16:48 G	7471547.10	7471547.20	7471547.31	0.2656	0.1297
Mercury	15746-10-19 06:57 G	7472459.73	7472459.79	7472459.85	0.2688	0.2342
Mercury	15764-04-15 03:50 G	7478847.57	7478847.66	7478847.75	0.2648	0.1863
Mercury	15766-10-14 12:28 G	7479759.91	7479760.02	7479760.12	0.2686	0.1514
Mercury	15777-04-18 00:57 G	7483598.41	7483598.54	7483598.66	0.2653	0.0099
Mercury	15779-10-17 12:14 G	7484510.89	7484511.01	7484511.14	0.2689	0.0651
Mercury	15790-04-20 22:19 G	7488349.34	7488349.43	7488349.52	0.2656	0.1732
Mercury	15810-04-17 09:07 G	7495649.77	7495649.88	7495649.99	0.2650	0.1380
Mercury	15812-10-15 18:00 G	7496562.13	7496562.25	7496562.37	0.2688	0.0984

Mercury	15823-04-20 06:14 G	7500400.64	7500400.76	7500400.88	0.2653	0.0279
Mercury	15825-10-18 18:00 G	7501313.13	7501313.25	7501313.37	0.2689	0.1053
Mercury	15836-04-22 03:36 G	7505151.58	7505151.65	7505151.73	0.2657	0.2090
Mercury	15845-10-14 00:14 G	7508613.48	7508613.51	7508613.54	0.2684	0.2582
Venus	15847-10-10 13:12 G	7509339.90	7509340.05	7509340.20	0.2688	0.0538
Mercury	15856-04-17 14:24 G	7512451.99	7512452.10	7512452.21	0.2650	0.1161
Mercury	15858-10-16 23:45 G	7513364.36	7513364.49	7513364.61	0.2689	0.0705
Mercury	15869-04-20 11:45 G	7517202.87	7517202.99	7517203.11	0.2654	0.0745
Mercury	15871-10-19 23:45 G	7518115.38	7518115.49	7518115.59	0.2689	0.1565
Mercury	15882-04-23 08:52 G	7521953.82	7521953.87	7521953.92	0.2657	0.2421
Mercury	15889-04-15 22:48 G	7524503.41	7524503.45	7524503.48	0.2646	0.2514
Mercury	15891-10-15 05:45 G	7525415.68	7525415.74	7525415.80	0.2685	0.2326
Mercury	15902-04-19 19:40 G	7529254.20	7529254.32	7529254.44	0.2651	0.0644
Mercury	15904-10-18 05:16 G	7530166.59	7530166.72	7530166.85	0.2689	0.0136
Mercury	15915-04-22 17:02 G	7534005.10	7534005.21	7534005.33	0.2656	0.1011
Mercury	15917-10-21 05:31 G	7534917.64	7534917.73	7534917.82	0.2688	0.1914
Mercury	15935-04-18 03:50 G	7541305.59	7541305.66	7541305.74	0.2647	0.2075
Mercury	15937-10-16 11:31 G	7542217.88	7542217.98	7542218.07	0.2687	0.1794
Mercury	15948-04-20 01:12 G	7546056.42	7546056.55	7546056.67	0.2651	0.0417
Mercury	15950-10-19 11:02 G	7546968.83	7546968.96	7546969.09	0.2689	0.0158
Venus	15961-04-13 04:48 G	7550797.56	7550797.70	7550797.85	0.2646	0.1094
Mercury	15961-04-22 22:19 G	7550807.33	7550807.43	7550807.53	0.2656	0.1511
Mercury	15963-10-22 11:16 G	7551719.93	7551719.97	7551720.01	0.2688	0.2505
Venus	15969-04-10 18:57 G	7553717.20	7553717.29	7553717.38	0.2641	0.2223
Mercury	15981-04-18 09:07 G	7558107.79	7558107.88	7558107.97	0.2648	0.1764
Mercury	15983-10-17 17:02 G	7559020.10	7559020.21	7559020.32	0.2688	0.1468
Mercury	15994-04-21 06:28 G	7562858.65	7562858.77	7562858.89	0.2653	0.0086
Mercury	15996-10-19 16:48 G	7563771.07	7563771.20	7563771.32	0.2689	0.0733

17TH MILLENNIUM CE

This is a list of transits visible from Moon in the 17th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	16007-04-24 03:50	G	7567609.56	7567609.66	7567609.75	0.2656	0.1729	
Mercury	16027-04-19 14:24	G	7574910.00	7574910.10	7574910.21	0.2648	0.1365	
Mercury	16029-10-17 22:33	G	7575822.32	7575822.44	7575822.56	0.2688	0.1014	
Mercury	16040-04-21 11:45	G	7579660.87	7579660.99	7579661.12	0.2655	0.0394	
Mercury	16042-10-20 22:33	G	7580573.32	7580573.44	7580573.56	0.2689	0.1076	
Mercury	16053-04-24 09:07	G	7584411.81	7584411.88	7584411.94	0.2656	0.2225	
Mercury	16062-10-16 05:02	G	7587873.70	7587873.71	7587873.71	0.2686	0.2679	
Mercury	16073-04-19 19:55	G	7591712.21	7591712.33	7591712.44	0.2650	0.0972	
Mercury	16075-10-19 04:04	G	7592624.54	7592624.67	7592624.80	0.2688	0.0607	
Mercury	16086-04-22 17:02	G	7596463.10	7596463.21	7596463.33	0.2655	0.0799	
Mercury	16088-10-21 04:04	G	7597375.57	7597375.67	7597375.78	0.2689	0.1581	
Venus	16090-10-11 02:24	G	7598095.44	7598095.60	7598095.76	0.2681	0.0660	
Mercury	16099-04-25 14:38	G	7601214.07	7601214.11	7601214.14	0.2656	0.2514	
Mercury	16106-04-19 04:04	G	7603763.61	7603763.67	7603763.73	0.2645	0.2314	
Mercury	16108-10-17 10:19	G	7604675.86	7604675.93	7604676.01	0.2686	0.2147	
Mercury	16119-04-22 01:12	G	7608514.43	7608514.55	7608514.67	0.2652	0.0669	
Mercury	16121-10-20 09:50	G	7609426.78	7609426.91	7609427.04	0.2689	0.0209	
Mercury	16132-04-23 22:33	G	7613265.33	7613265.44	7613265.55	0.2655	0.1149	
Mercury	16134-10-23 09:50	G	7614177.82	7614177.91	7614178.00	0.2689	0.1967	
Mercury	16152-04-19 09:21	G	7620565.81	7620565.89	7620565.97	0.2646	0.2085	

Mercury	16154-10-18 15:50 G	7621478.07	7621478.16	7621478.25	0.2686	0.1900
Mercury	16165-04-22 06:28 G	7625316.65	7625316.77	7625316.90	0.2653	0.0193
Mercury	16167-10-21 15:36 G	7626229.02	7626229.15	7626229.28	0.2689	0.0330
Mercury	16178-04-25 03:50 G	7630067.56	7630067.66	7630067.77	0.2655	0.1506
Mercury	16180-10-23 15:36 G	7630980.09	7630980.15	7630980.21	0.2688	0.2405
Mercury	16198-04-20 14:38 G	7637368.01	7637368.11	7637368.21	0.2648	0.1575
Mercury	16200-10-19 21:21 G	7638280.28	7638280.39	7638280.51	0.2687	0.1334
Venus	16204-04-14 20:52 G	7639553.21	7639553.37	7639553.53	0.2645	0.0118
Mercury	16211-04-24 12:00 G	7642118.87	7642119.00	7642119.12	0.2653	0.0112
Mercury	16213-10-22 21:07 G	7643031.26	7643031.38	7643031.51	0.2690	0.0611
Mercury	16224-04-26 09:21 G	7646869.81	7646869.89	7646869.97	0.2656	0.1960
Mercury	16244-04-21 19:55 G	7654170.22	7654170.33	7654170.44	0.2649	0.1338
Mercury	16246-10-21 03:07 G	7655082.51	7655082.63	7655082.75	0.2688	0.1055
Mercury	16257-04-24 17:16 G	7658921.10	7658921.22	7658921.34	0.2653	0.0564
Mercury	16259-10-24 02:38 G	7659833.50	7659833.61	7659833.73	0.2689	0.1185
Mercury	16270-04-27 14:38 G	7663672.05	7663672.11	7663672.18	0.2657	0.2216
Mercury	16279-10-19 09:36 G	7667133.87	7667133.90	7667133.93	0.2684	0.2600
Mercury	16290-04-23 01:12 G	7670972.43	7670972.55	7670972.67	0.2650	0.0870
Mercury	16292-10-21 08:52 G	7671884.74	7671884.87	7671884.99	0.2689	0.0508
Mercury	16303-04-26 22:48 G	7675723.33	7675723.45	7675723.56	0.2654	0.0818
Mercury	16305-10-25 08:38 G	7676635.75	7676635.86	7676635.97	0.2689	0.1482
Mercury	16323-04-22 09:21 G	7683023.83	7683023.89	7683023.95	0.2646	0.2325
Mercury	16325-10-20 15:07 G	7683936.06	7683936.13	7683936.20	0.2685	0.2171
Venus	16333-10-14 08:52 G	7686851.72	7686851.87	7686852.02	0.2691	0.0052
Mercury	16336-04-24 06:28 G	7687774.65	7687774.77	7687774.89	0.2650	0.0585
Mercury	16338-10-23 14:24 G	7688686.97	7688687.10	7688687.23	0.2689	0.0204
Mercury	16349-04-27 04:04 G	7692525.56	7692525.67	7692525.78	0.2656	0.1305
Mercury	16351-10-26 14:24 G	7693438.02	7693438.10	7693438.18	0.2689	0.2078
Mercury	16369-04-22 14:38 G	7699826.02	7699826.11	7699826.20	0.2647	0.1896
Mercury	16371-10-21 20:38 G	7700738.26	7700738.36	7700738.46	0.2687	0.1735

Mercury	16382-04-25 12:00 G	7704576.87	7704577.00	7704577.12	0.2651	0.0159
Mercury	16384-10-23 19:55 G	7705489.20	7705489.33	7705489.46	0.2689	0.0294
Mercury	16395-04-28 09:21 G	7709327.79	7709327.89	7709327.99	0.2656	0.1582
Mercury	16397-10-26 20:09 G	7710240.28	7710240.34	7710240.40	0.2689	0.2405
Mercury	16415-04-23 19:55 G	7716628.23	7716628.33	7716628.43	0.2647	0.1629
Mercury	16417-10-22 02:09 G	7717540.48	7717540.59	7717540.70	0.2688	0.1425
Mercury	16428-04-25 17:16 G	7721379.10	7721379.22	7721379.35	0.2653	0.0247
Mercury	16430-10-25 01:40 G	7722291.44	7722291.57	7722291.70	0.2689	0.0713
Mercury	16441-04-28 14:38 G	7726130.04	7726130.11	7726130.19	0.2656	0.2015
Venus	16447-04-17 09:21 G	7728309.76	7728309.89	7728310.01	0.2651	0.1527
Venus	16455-04-15 02:38 G	7731229.52	7731229.61	7731229.71	0.2645	0.2098
Mercury	16461-04-24 01:12 G	7733430.44	7733430.55	7733430.67	0.2648	0.1137
Mercury	16463-10-23 07:40 G	7734342.70	7734342.82	7734342.94	0.2688	0.0902
Mercury	16474-04-26 22:48 G	7738181.33	7738181.45	7738181.57	0.2654	0.0550
Mercury	16476-10-25 07:26 G	7739093.69	7739093.81	7739093.93	0.2689	0.1121
Mercury	16487-04-29 20:09 G	7742932.29	7742932.34	7742932.39	0.2656	0.2364
Mercury	16494-04-22 09:21 G	7745481.86	7745481.89	7745481.92	0.2644	0.2531
Mercury	16496-10-20 14:09 G	7746394.04	7746394.09	7746394.14	0.2686	0.2458
Mercury	16507-04-26 06:43 G	7750232.66	7750232.78	7750232.90	0.2649	0.0899
Mercury	16509-10-24 13:12 G	7751144.93	7751145.05	7751145.18	0.2688	0.0621
Mercury	16520-04-28 04:04 G	7754983.55	7754983.67	7754983.78	0.2655	0.1014
Mercury	16522-10-27 13:12 G	7755895.94	7755896.05	7755896.15	0.2690	0.1644
Mercury	16540-04-23 14:38 G	7762284.05	7762284.11	7762284.17	0.2645	0.2288
Mercury	16542-10-22 19:40 G	7763196.25	7763196.32	7763196.39	0.2686	0.2213
Mercury	16553-04-26 12:00 G	7767034.88	7767035.00	7767035.12	0.2651	0.0374
Mercury	16555-10-25 18:57 G	7767947.16	7767947.29	7767947.42	0.2689	0.0042
Mercury	16566-04-29 09:21 G	7771785.78	7771785.89	7771786.00	0.2655	0.1270
Mercury	16568-10-27 18:43 G	7772698.19	7772698.28	7772698.37	0.2689	0.1935
Venus	16576-10-15 05:02 G	7775607.56	7775607.71	7775607.86	0.2679	0.1198
Mercury	16586-04-24 19:55 G	7779086.24	7779086.33	7779086.42	0.2646	0.1813

Mercury	16588-10-23 01:12 G	7779998.45	7779998.55	7779998.65	0.2686	0.1682
Mercury	16599-04-27 17:16 G	7783837.10	7783837.22	7783837.35	0.2652	0.0152
Mercury	16601-10-27 00:43 G	7784749.40	7784749.53	7784749.66	0.2690	0.0245
Mercury	16612-04-30 14:52 G	7788588.03	7788588.12	7788588.21	0.2655	0.1783
Mercury	16614-10-30 00:14 G	7789500.47	7789500.51	7789500.56	0.2689	0.2516
Mercury	16632-04-26 01:12 G	7795888.45	7795888.55	7795888.66	0.2648	0.1503
Mercury	16634-10-25 06:43 G	7796800.67	7796800.78	7796800.90	0.2687	0.1365
Mercury	16645-04-28 22:33 G	7800639.32	7800639.44	7800639.57	0.2653	0.0356
Mercury	16647-10-28 06:14 G	7801551.64	7801551.76	7801551.88	0.2690	0.0806
Mercury	16658-05-01 20:24 G	7805390.27	7805390.35	7805390.43	0.2656	0.2038
Mercury	16678-04-27 06:28 G	7812690.66	7812690.77	7812690.89	0.2649	0.1139
Mercury	16680-10-25 12:28 G	7813602.90	7813603.02	7813603.14	0.2688	0.0911
Venus	16690-04-19 03:50 G	7817065.49	7817065.66	7817065.82	0.2641	0.0069
Mercury	16691-04-30 04:04 G	7817441.55	7817441.67	7817441.79	0.2653	0.0628
Mercury	16693-10-28 11:45 G	7818353.87	7818353.99	7818354.11	0.2690	0.1107
Mercury	16704-05-03 01:40 G	7822192.54	7822192.57	7822192.61	0.2657	0.2533
Mercury	16711-04-26 14:38 G	7824742.09	7824742.11	7824742.14	0.2644	0.2567
Mercury	16713-10-24 18:57 G	7825654.25	7825654.29	7825654.33	0.2684	0.2538
Mercury	16724-04-28 12:00 G	7829492.88	7829493.00	7829493.12	0.2650	0.0713
Mercury	16726-10-27 18:00 G	7830405.12	7830405.25	7830405.38	0.2689	0.0476
Mercury	16737-05-01 09:36 G	7834243.79	7834243.90	7834244.01	0.2654	0.1074
Mercury	16739-10-30 17:31 G	7835156.13	7835156.23	7835156.33	0.2689	0.1616
Mercury	16757-04-26 19:55 G	7841544.25	7841544.33	7841544.41	0.2646	0.2078
Mercury	16759-10-26 00:28 G	7842456.44	7842456.52	7842456.60	0.2686	0.2019
Mercury	16770-04-29 17:16 G	7846295.10	7846295.22	7846295.35	0.2650	0.0418
Mercury	16772-10-27 23:31 G	7847207.35	7847207.48	7847207.61	0.2689	0.0141
Mercury	16783-05-02 15:07 G	7851046.02	7851046.13	7851046.23	0.2655	0.1467
Mercury	16785-10-30 23:16 G	7851958.39	7851958.47	7851958.55	0.2689	0.2050
Mercury	16803-04-28 01:12 G	7858346.46	7858346.55	7858346.64	0.2647	0.1864
Mercury	16805-10-26 06:00 G	7859258.66	7859258.75	7859258.85	0.2687	0.1769

Venus	16811-10-20 09:36 G	7861443.85	7861443.90	7861443.96	0.2687	0.2467
Mercury	16816-04-29 22:48 G	7863097.32	7863097.45	7863097.57	0.2651	0.0091
Mercury	16818-10-29 05:02 G	7864009.58	7864009.71	7864009.84	0.2689	0.0377
Venus	16819-10-18 02:52 G	7864363.48	7864363.62	7864363.76	0.2691	0.1156
Mercury	16829-05-02 20:24 G	7867848.26	7867848.35	7867848.44	0.2656	0.1780
Mercury	16831-11-01 05:02 G	7868760.66	7868760.71	7868760.76	0.2689	0.2445
Mercury	16849-04-28 06:28 G	7875148.66	7875148.77	7875148.88	0.2647	0.1337
Mercury	16851-10-27 11:31 G	7876060.86	7876060.98	7876061.09	0.2688	0.1213
Mercury	16862-05-01 04:04 G	7879899.55	7879899.67	7879899.80	0.2653	0.0338
Mercury	16864-10-29 10:48 G	7880811.82	7880811.95	7880812.07	0.2689	0.0690
Mercury	16875-05-04 01:40 G	7884650.51	7884650.57	7884650.64	0.2656	0.2227
Mercury	16895-04-29 12:00 G	7891950.88	7891951.00	7891951.11	0.2648	0.1099
Mercury	16897-10-27 17:02 G	7892863.09	7892863.21	7892863.33	0.2688	0.0967
Mercury	16908-05-02 09:36 G	7896701.78	7896701.90	7896702.02	0.2654	0.0854
Mercury	16910-10-31 16:33 G	7897614.08	7897614.19	7897614.30	0.2690	0.1276
Mercury	16921-05-05 07:12 G	7901452.76	7901452.80	7901452.84	0.2656	0.2503
Mercury	16928-04-27 19:55 G	7904002.28	7904002.33	7904002.37	0.2645	0.2449
Mercury	16930-10-26 23:45 G	7904914.44	7904914.49	7904914.54	0.2686	0.2441
Venus	16933-04-21 11:45 G	7905821.86	7905821.99	7905822.12	0.2653	0.1264
Venus	16941-04-19 07:40 G	7908741.77	7908741.82	7908741.87	0.2649	0.2481
Mercury	16941-04-30 17:16 G	7908753.10	7908753.22	7908753.35	0.2649	0.0610
Mercury	16943-10-29 22:33 G	7909665.31	7909665.44	7909665.57	0.2688	0.0419
Mercury	16954-05-03 14:52 G	7913504.01	7913504.12	7913504.24	0.2655	0.1074
Mercury	16956-10-31 22:19 G	7914416.32	7914416.43	7914416.53	0.2690	0.1552
Mercury	16974-04-29 01:12 G	7920804.47	7920804.55	7920804.63	0.2645	0.2087
Mercury	16976-10-27 05:16 G	7921716.64	7921716.72	7921716.80	0.2686	0.2064
Mercury	16987-05-01 22:48 G	7925555.32	7925555.45	7925555.57	0.2651	0.0292
Mercury	16989-10-30 04:19 G	7926467.55	7926467.68	7926467.81	0.2689	0.0085
Mercury	17000-05-04 20:09 G	7930306.25	7930306.34	7930306.44	0.2655	0.1581

18TH MILLENNIUM CE

This is a list of transits visible from Moon in the 18th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	17002-11-03 03:50	G	7931218.58	7931218.66	7931218.74	0.2690	0.2119	
Mercury	17020-04-30 06:43	G	7937606.68	7937606.78	7937606.87	0.2645	0.1655	
Mercury	17022-10-29 10:33	G	7938518.84	7938518.94	7938519.05	0.2686	0.1639	
Mercury	17033-05-03 04:04	G	7942357.54	7942357.67	7942357.80	0.2652	0.0095	
Mercury	17035-11-01 09:50	G	7943269.79	7943269.91	7943270.04	0.2690	0.0385	
Mercury	17046-05-06 01:40	G	7947108.49	7947108.57	7947108.66	0.2655	0.1871	
Mercury	17048-11-03 09:21	G	7948020.84	7948020.89	7948020.95	0.2689	0.2430	
Venus	17062-10-20 08:09	G	7953119.69	7953119.84	7953119.99	0.2681	0.1008	
Mercury	17066-05-01 12:00	G	7954408.89	7954409.00	7954409.11	0.2647	0.1374	
Mercury	17068-10-29 16:19	G	7955321.06	7955321.18	7955321.29	0.2687	0.1300	
Mercury	17079-05-04 09:21	G	7959159.77	7959159.89	7959160.02	0.2652	0.0503	
Mercury	17081-11-01 15:21	G	7960072.02	7960072.14	7960072.27	0.2690	0.0806	
Mercury	17092-05-06 07:12	G	7963910.75	7963910.80	7963910.86	0.2656	0.2312	
Mercury	17112-05-02 17:16	G	7971211.10	7971211.22	7971211.34	0.2649	0.0872	
Mercury	17114-10-31 21:50	G	7972123.29	7972123.41	7972123.53	0.2688	0.0773	
Mercury	17125-05-05 14:52	G	7975962.00	7975962.12	7975962.24	0.2653	0.0820	
Mercury	17127-11-03 21:07	G	7976874.26	7976874.38	7976874.49	0.2690	0.1174	
Mercury	17145-05-01 01:12	G	7983262.49	7983262.55	7983262.61	0.2644	0.2288	
Mercury	17147-10-30 04:33	G	7984174.63	7984174.69	7984174.75	0.2684	0.2311	
Mercury	17158-05-03 22:33	G	7988013.32	7988013.44	7988013.56	0.2650	0.0655	

Mercury	17160-11-01 03:21 G	7988925.52	7988925.64	7988925.77	0.2689	0.0512
Mercury	17171-05-06 20:24 G	7992764.24	7992764.35	7992764.46	0.2654	0.1303
Mercury	17173-11-04 02:38 G	7993676.51	7993676.61	7993676.71	0.2689	0.1688
Venus	17176-04-23 12:57 G	7994577.88	7994578.04	7994578.20	0.2640	0.0851
Mercury	17191-05-02 06:28 G	8000064.69	8000064.77	8000064.85	0.2646	0.2033
Mercury	17193-10-30 10:04 G	8000976.84	8000976.92	8000977.00	0.2686	0.2055
Mercury	17204-05-04 03:50 G	8004815.54	8004815.66	8004815.79	0.2650	0.0142
Mercury	17206-11-02 08:52 G	8005727.74	8005727.87	8005728.00	0.2689	0.0055
Mercury	17217-05-07 01:55 G	8009566.48	8009566.58	8009566.68	0.2655	0.1564
Mercury	17219-11-05 08:24 G	8010478.77	8010478.85	8010478.94	0.2689	0.2013
Mercury	17237-05-02 11:45 G	8016866.89	8016866.99	8016867.09	0.2647	0.1596
Mercury	17239-10-31 15:36 G	8017779.05	8017779.15	8017779.25	0.2687	0.1560
Mercury	17250-05-05 09:21 G	8021617.77	8021617.89	8021618.02	0.2651	0.0131
Mercury	17252-11-02 14:24 G	8022529.98	8022530.10	8022530.23	0.2689	0.0326
Mercury	17263-05-08 07:12 G	8026368.73	8026368.80	8026368.88	0.2656	0.2084
Mercury	17265-11-05 14:09 G	8027281.06	8027281.09	8027281.12	0.2689	0.2598
Mercury	17283-05-03 17:02 G	8033669.10	8033669.21	8033669.32	0.2647	0.1260
Mercury	17285-10-31 21:07 G	8034581.26	8034581.38	8034581.49	0.2688	0.1231
Mercury	17296-05-05 14:52 G	8038420.00	8038420.12	8038420.24	0.2653	0.0622
Venus	17297-10-23 07:55 G	8038955.72	8038955.83	8038955.94	0.2683	0.1922
Mercury	17298-11-03 20:09 G	8039332.22	8039332.34	8039332.46	0.2689	0.0874
Venus	17305-10-21 22:19 G	8041875.40	8041875.43	8041875.46	0.2689	0.2619
Mercury	17309-05-09 12:43 G	8043170.97	8043171.03	8043171.08	0.2656	0.2309
Mercury	17316-05-02 00:57 G	8045720.52	8045720.54	8045720.56	0.2644	0.2606
Mercury	17318-10-31 04:04 G	8046632.66	8046632.67	8046632.68	0.2684	0.2671
Mercury	17329-05-04 22:33 G	8050471.32	8050471.44	8050471.56	0.2647	0.0868
Mercury	17331-11-03 02:24 G	8051383.48	8051383.60	8051383.73	0.2688	0.0813
Mercury	17342-05-07 20:24 G	8055222.23	8055222.35	8055222.46	0.2654	0.0940
Mercury	17344-11-05 01:55 G	8056134.46	8056134.58	8056134.69	0.2690	0.1225
Mercury	17362-05-03 06:14 G	8062522.71	8062522.76	8062522.82	0.2644	0.2359

Mercury	17364-10-31 09:36 G	8063434.84	8063434.90	8063434.95	0.2686	0.2408
Mercury	17375-05-06 03:50 G	8067273.54	8067273.66	8067273.79	0.2649	0.0455
Mercury	17377-11-03 08:09 G	8068185.71	8068185.84	8068185.96	0.2688	0.0397
Mercury	17388-05-08 01:40 G	8072024.46	8072024.57	8072024.68	0.2654	0.1341
Mercury	17390-11-06 07:26 G	8072936.71	8072936.81	8072936.91	0.2690	0.1689
Mercury	17408-05-04 11:31 G	8079324.89	8079324.98	8079325.08	0.2645	0.1836
Mercury	17410-11-02 14:52 G	8080237.03	8080237.12	8080237.21	0.2686	0.1886
Venus	17419-04-26 13:12 G	8083333.90	8083334.05	8083334.20	0.2652	0.0481
Mercury	17421-05-07 09:21 G	8084075.76	8084075.89	8084076.02	0.2651	0.0153
Mercury	17423-11-05 13:40 G	8084987.94	8084988.07	8084988.20	0.2689	0.0031
Venus	17427-04-24 09:50 G	8086253.90	8086253.91	8086253.93	0.2652	0.2624
Mercury	17434-05-10 07:12 G	8088826.70	8088826.80	8088826.89	0.2654	0.1723
Mercury	17436-11-07 12:57 G	8089738.96	8089739.04	8089739.12	0.2690	0.2089
Mercury	17454-05-05 17:02 G	8096127.11	8096127.21	8096127.31	0.2645	0.1604
Mercury	17456-11-02 20:24 G	8097039.25	8097039.35	8097039.45	0.2686	0.1648
Mercury	17467-05-08 14:38 G	8100877.99	8100878.11	8100878.24	0.2652	0.0355
Mercury	17469-11-05 19:12 G	8101790.18	8101790.30	8101790.43	0.2690	0.0506
Mercury	17480-05-10 12:43 G	8105628.95	8105629.03	8105629.10	0.2655	0.2073
Mercury	17482-11-08 18:28 G	8106541.23	8106541.27	8106541.32	0.2689	0.2486
Mercury	17500-05-06 22:19 G	8112929.32	8112929.43	8112929.55	0.2647	0.1091
Mercury	17502-11-05 01:55 G	8113841.46	8113841.58	8113841.69	0.2687	0.1090
Mercury	17513-05-09 20:09 G	8117680.22	8117680.34	8117680.46	0.2652	0.0580
Mercury	17515-11-08 00:57 G	8118592.41	8118592.54	8118592.66	0.2690	0.0777
Mercury	17526-05-12 18:14 G	8122431.22	8122431.26	8122431.29	0.2656	0.2555
Mercury	17533-05-05 06:14 G	8124980.73	8124980.76	8124980.79	0.2643	0.2545
Mercury	17535-11-03 08:52 G	8125892.85	8125892.87	8125892.89	0.2684	0.2634
Venus	17540-10-26 17:31 G	8127712.14	8127712.23	8127712.31	0.2690	0.2233
Mercury	17546-05-08 03:50 G	8129731.54	8129731.66	8129731.78	0.2649	0.0834
Venus	17548-10-24 08:52 G	8130631.72	8130631.87	8130632.01	0.2685	0.1090
Mercury	17548-11-05 07:26 G	8130643.69	8130643.81	8130643.93	0.2688	0.0814

Mercury	17559-05-11 01:26 G	8134482.45	8134482.56	8134482.68	0.2653	0.1111
Mercury	17561-11-08 06:14 G	8135394.65	8135394.76	8135394.88	0.2690	0.1343
Mercury	17579-05-06 11:31 G	8141782.91	8141782.98	8141783.05	0.2644	0.2203
Mercury	17581-11-03 14:24 G	8142695.04	8142695.10	8142695.16	0.2684	0.2312
Mercury	17592-05-08 09:07 G	8146533.75	8146533.88	8146534.01	0.2650	0.0362
Mercury	17594-11-06 12:57 G	8147445.91	8147446.04	8147446.16	0.2689	0.0307
Mercury	17605-05-11 07:12 G	8151284.69	8151284.80	8151284.90	0.2654	0.1377
Mercury	17607-11-09 12:00 G	8152196.90	8152197.00	8152197.10	0.2689	0.1625
Mercury	17625-05-06 16:48 G	8158585.11	8158585.20	8158585.29	0.2646	0.1860
Mercury	17627-11-04 19:55 G	8159497.24	8159497.33	8159497.42	0.2685	0.1910
Mercury	17638-05-09 14:38 G	8163335.98	8163336.11	8163336.23	0.2650	0.0099
Mercury	17640-11-06 18:28 G	8164248.14	8164248.27	8164248.39	0.2689	0.0087
Mercury	17651-05-12 12:28 G	8168086.94	8168087.02	8168087.11	0.2655	0.1877
Mercury	17653-11-09 17:45 G	8168999.17	8168999.24	8168999.31	0.2689	0.2183
Venus	17662-04-27 22:19 G	8172090.30	8172090.43	8172090.55	0.2643	0.1704
Venus	17670-04-25 11:02 G	8175009.93	8175009.96	8175009.99	0.2640	0.2579
Mercury	17671-05-07 22:04 G	8175387.31	8175387.42	8175387.53	0.2647	0.1411
Mercury	17673-11-05 01:12 G	8176299.45	8176299.55	8176299.66	0.2687	0.1469
Mercury	17684-05-09 19:55 G	8180138.21	8180138.33	8180138.46	0.2651	0.0382
Mercury	17686-11-08 00:00 G	8181050.37	8181050.50	8181050.62	0.2689	0.0471
Mercury	17697-05-12 18:00 G	8184889.18	8184889.25	8184889.32	0.2656	0.2171
Mercury	17699-11-10 23:31 G	8185801.43	8185801.48	8185801.52	0.2689	0.2517
Mercury	17717-05-09 03:36 G	8192189.53	8192189.65	8192189.76	0.2647	0.1144
Mercury	17719-11-07 06:43 G	8193101.66	8193101.78	8193101.89	0.2688	0.1188
Mercury	17730-05-12 01:26 G	8196940.44	8196940.56	8196940.68	0.2653	0.0788
Mercury	17732-11-09 05:31 G	8197852.61	8197852.73	8197852.85	0.2689	0.0896
Mercury	17743-05-14 23:16 G	8201691.45	8201691.47	8201691.50	0.2656	0.2594
Mercury	17750-05-07 11:16 G	8204240.95	8204240.97	8204240.99	0.2644	0.2584
Mercury	17763-05-10 08:52 G	8208991.75	8208991.87	8208992.00	0.2648	0.0629
Mercury	17765-11-07 12:00 G	8209903.88	8209904.00	8209904.13	0.2688	0.0672

Mercury	17776-05-12 06:57 G	8213742.68	8213742.79	8213742.90	0.2654	0.1095
Mercury	17778-11-10 11:16 G	8214654.86	8214654.97	8214655.08	0.2690	0.1262
Venus	17783-10-28 08:52 G	8216467.71	8216467.87	8216468.02	0.2679	0.1124
Mercury	17796-05-07 16:33 G	8221043.11	8221043.19	8221043.27	0.2645	0.2077
Mercury	17798-11-05 19:26 G	8221955.23	8221955.31	8221955.38	0.2686	0.2167
Mercury	17809-05-11 14:24 G	8225793.97	8225794.10	8225794.23	0.2649	0.0383
Mercury	17811-11-09 17:45 G	8226706.11	8226706.24	8226706.36	0.2688	0.0405
Mercury	17822-05-14 12:14 G	8230544.91	8230545.01	8230545.11	0.2654	0.1585
Mercury	17824-11-11 16:48 G	8231457.10	8231457.20	8231457.29	0.2690	0.1784
Mercury	17842-05-09 22:04 G	8237845.32	8237845.42	8237845.51	0.2645	0.1816
Mercury	17844-11-07 00:43 G	8238757.44	8238757.53	8238757.61	0.2686	0.1923
Mercury	17855-05-12 19:55 G	8242596.20	8242596.33	8242596.45	0.2651	0.0165
Mercury	17857-11-09 23:16 G	8243508.34	8243508.47	8243508.60	0.2689	0.0171
Mercury	17868-05-14 17:45 G	8247347.15	8247347.24	8247347.33	0.2654	0.1833
Mercury	17870-11-12 22:19 G	8248259.35	8248259.43	8248259.51	0.2690	0.2065
Mercury	17888-05-10 03:21 G	8254647.53	8254647.64	8254647.75	0.2646	0.1331
Mercury	17890-11-08 06:00 G	8255559.65	8255559.75	8255559.86	0.2686	0.1431
Mercury	17901-05-14 01:12 G	8259398.43	8259398.55	8259398.68	0.2652	0.0392
Mercury	17903-11-12 04:48 G	8260310.58	8260310.70	8260310.83	0.2690	0.0456
Venus	17905-04-30 15:36 G	8260845.99	8260846.15	8260846.30	0.2648	0.0196
Venus	17913-04-28 10:33 G	8263765.91	8263765.94	8263765.97	0.2652	0.2587
Mercury	17914-05-16 23:16 G	8264149.41	8264149.47	8264149.52	0.2655	0.2358
Mercury	17916-11-14 03:50 G	8265061.64	8265061.66	8265061.69	0.2689	0.2634
Mercury	17934-05-12 08:52 G	8271449.75	8271449.87	8271449.99	0.2648	0.0997
Mercury	17936-11-09 11:31 G	8272361.87	8272361.98	8272362.10	0.2687	0.1107
Mercury	17947-05-15 06:43 G	8276200.66	8276200.78	8276200.90	0.2652	0.0891
Mercury	17949-11-12 10:19 G	8277112.81	8277112.93	8277113.05	0.2690	0.0966
Mercury	17960-05-17 04:48 G	8280951.69	8280951.70	8280951.72	0.2656	0.2630
Mercury	17967-05-10 16:19 G	8283501.13	8283501.18	8283501.24	0.2643	0.2378
Mercury	17969-11-07 18:43 G	8284413.24	8284413.28	8284413.33	0.2683	0.2524

Mercury	17980-05-12 14:09 G	8288251.97	8288252.09	8288252.22	0.2649	0.0638
Mercury	17982-11-10 17:02 G	8289164.09	8289164.21	8289164.34	0.2688	0.0691
Mercury	17993-05-15 12:00 G	8293002.89	8293003.00	8293003.12	0.2653	0.1193
Mercury	17995-11-13 15:50 G	8293915.05	8293915.16	8293915.27	0.2690	0.1271

19TH MILLENNIUM CE

This is a list of transits visible from Moon in the 19th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	18013-05-10 21:50 G		8300303.33	8300303.41	8300303.48	0.2644	0.2114	
Mercury	18015-11-09 00:14 G		8301215.44	8301215.51	8301215.58	0.2684	0.2251	
Mercury	18026-05-13 19:26 G		8305054.18	8305054.31	8305054.44	0.2650	0.0200	
Venus	18026-10-30 12:57 G		8305223.93	8305224.04	8305224.16	0.2692	0.1680	
Mercury	18028-11-10 22:33 G		8305966.31	8305966.44	8305966.57	0.2689	0.0243	
Venus	18034-10-28 06:43 G		8308143.68	8308143.78	8308143.88	0.2688	0.2033	
Mercury	18039-05-16 17:45 G		8309805.14	8309805.24	8309805.34	0.2654	0.1626	
Mercury	18041-11-13 21:21 G		8310717.30	8310717.39	8310717.49	0.2689	0.1756	
Mercury	18059-05-12 03:07 G		8317105.53	8317105.63	8317105.73	0.2646	0.1601	
Mercury	18061-11-09 05:45 G		8318017.64	8318017.74	8318017.83	0.2685	0.1740	
Mercury	18072-05-14 00:57 G		8321856.41	8321856.54	8321856.67	0.2650	0.0097	
Mercury	18074-11-12 04:04 G		8322768.54	8322768.67	8322768.79	0.2689	0.0084	
Mercury	18085-05-16 23:16 G		8326607.39	8326607.47	8326607.54	0.2655	0.2039	
Mercury	18087-11-15 03:07 G		8327519.56	8327519.63	8327519.70	0.2689	0.2190	
Mercury	18105-05-13 08:24 G		8333907.74	8333907.85	8333907.96	0.2647	0.1383	

Mercury	18107-11-11 11:02 G	8334819.86	8334819.96	8334820.07	0.2687	0.1499
Mercury	18118-05-16 06:28 G	8338658.64	8338658.77	8338658.89	0.2651	0.0606
Mercury	18120-11-13 09:36 G	8339570.77	8339570.90	8339571.02	0.2689	0.0582
Mercury	18131-05-19 04:33 G	8343409.64	8343409.69	8343409.75	0.2656	0.2351
Mercury	18133-11-16 08:38 G	8344321.83	8344321.86	8344321.90	0.2689	0.2549
Venus	18148-05-02 04:33 G	8349602.56	8349602.69	8349602.81	0.2648	0.1559
Mercury	18151-05-14 13:55 G	8350709.95	8350710.08	8350710.20	0.2647	0.0856
Mercury	18153-11-11 16:33 G	8351622.07	8351622.19	8351622.31	0.2688	0.0959
Venus	18156-04-29 20:24 G	8352522.28	8352522.35	8352522.42	0.2643	0.2367
Mercury	18164-05-16 12:00 G	8355460.88	8355461.00	8355461.12	0.2653	0.0861
Mercury	18166-11-14 15:07 G	8356373.01	8356373.13	8356373.25	0.2689	0.0872
Mercury	18184-05-11 21:21 G	8362761.33	8362761.39	8362761.45	0.2644	0.2364
Mercury	18186-11-10 00:00 G	8363673.45	8363673.50	8363673.54	0.2684	0.2485
Mercury	18197-05-14 19:12 G	8367512.18	8367512.30	8367512.43	0.2648	0.0603
Mercury	18199-11-12 21:50 G	8368424.29	8368424.41	8368424.53	0.2688	0.0721
Mercury	18210-05-18 17:31 G	8372263.12	8372263.23	8372263.33	0.2654	0.1399
Mercury	18212-11-15 20:52 G	8373175.26	8373175.37	8373175.47	0.2690	0.1445
Mercury	18230-05-14 02:38 G	8379563.53	8379563.61	8379563.70	0.2645	0.1979
Mercury	18232-11-11 05:16 G	8380475.64	8380475.72	8380475.79	0.2685	0.2138
Mercury	18243-05-17 00:43 G	8384314.40	8384314.53	8384314.66	0.2649	0.0107
Mercury	18245-11-14 03:21 G	8385226.51	8385226.64	8385226.77	0.2688	0.0204
Mercury	18256-05-18 22:48 G	8389065.35	8389065.45	8389065.55	0.2654	0.1631
Mercury	18258-11-17 02:24 G	8389977.50	8389977.60	8389977.69	0.2690	0.1706
Venus	18269-11-01 11:31 G	8393979.81	8393979.98	8393980.14	0.2678	0.0633
Mercury	18276-05-14 08:09 G	8396365.74	8396365.84	8396365.94	0.2645	0.1632
Mercury	18278-11-12 10:33 G	8397277.85	8397277.94	8397278.03	0.2686	0.1794
Mercury	18289-05-17 06:14 G	8401116.63	8401116.76	8401116.89	0.2651	0.0240
Mercury	18291-11-15 08:52 G	8402028.75	8402028.87	8402029.00	0.2689	0.0148
Mercury	18302-05-21 04:19 G	8405867.61	8405867.68	8405867.75	0.2654	0.2144
Mercury	18304-11-18 07:40 G	8406779.76	8406779.82	8406779.89	0.2690	0.2242

Mercury	18322-05-16 13:40 G	8413167.95	8413168.07	8413168.18	0.2646	0.1174
Mercury	18324-11-13 15:50 G	8414080.05	8414080.16	8414080.27	0.2685	0.1358
Mercury	18335-05-19 11:31 G	8417918.86	8417918.98	8417919.11	0.2652	0.0617
Mercury	18337-11-16 14:24 G	8418830.98	8418831.10	8418831.23	0.2690	0.0570
Mercury	18348-05-21 09:50 G	8422669.87	8422669.91	8422669.96	0.2655	0.2452
Mercury	18350-11-19 13:26 G	8423582.02	8423582.06	8423582.09	0.2689	0.2554
Mercury	18355-05-14 21:07 G	8425219.36	8425219.38	8425219.39	0.2643	0.2602
Mercury	18368-05-16 18:57 G	8429970.17	8429970.29	8429970.41	0.2648	0.0902
Mercury	18370-11-14 21:21 G	8430882.27	8430882.39	8430882.51	0.2686	0.1051
Mercury	18381-05-19 17:02 G	8434721.09	8434721.21	8434721.33	0.2652	0.1035
Mercury	18383-11-17 19:55 G	8435633.21	8435633.33	8435633.45	0.2690	0.0995
Venus	18391-05-04 20:38 G	8438358.20	8438358.36	8438358.52	0.2643	0.0684
Mercury	18401-05-15 02:24 G	8442021.55	8442021.60	8442021.66	0.2643	0.2367
Mercury	18403-11-13 04:48 G	8442933.67	8442933.70	8442933.74	0.2683	0.2546
Mercury	18414-05-18 00:28 G	8446772.39	8446772.52	8446772.64	0.2649	0.0381
Mercury	18416-11-15 02:52 G	8447684.50	8447684.62	8447684.74	0.2688	0.0526
Mercury	18427-05-20 22:33 G	8451523.33	8451523.44	8451523.55	0.2653	0.1355
Mercury	18429-11-18 01:26 G	8452435.45	8452435.56	8452435.67	0.2690	0.1329
Mercury	18447-05-16 07:55 G	8458823.73	8458823.83	8458823.92	0.2644	0.1847
Mercury	18449-11-13 10:19 G	8459735.84	8459735.93	8459736.01	0.2683	0.2022
Mercury	18460-05-18 05:45 G	8463574.61	8463574.74	8463574.87	0.2650	0.0161
Mercury	18462-11-16 08:24 G	8464486.72	8464486.85	8464486.97	0.2689	0.0279
Mercury	18473-05-21 04:04 G	8468325.58	8468325.67	8468325.76	0.2654	0.1863
Mercury	18475-11-19 06:57 G	8469237.70	8469237.79	8469237.89	0.2689	0.1850
Mercury	18493-05-16 13:12 G	8475625.95	8475626.05	8475626.16	0.2646	0.1571
Mercury	18495-11-14 15:36 G	8476538.06	8476538.15	8476538.25	0.2685	0.1764
Mercury	18506-05-20 11:16 G	8480376.84	8480376.97	8480377.09	0.2650	0.0395
Mercury	18508-11-17 13:40 G	8481288.95	8481289.07	8481289.20	0.2689	0.0279
Venus	18512-11-03 07:40 G	8482735.67	8482735.82	8482735.97	0.2690	0.0533
Mercury	18519-05-23 09:36 G	8485127.83	8485127.90	8485127.98	0.2655	0.2123

Mercury	18521-11-20 12:43 G	8486039.96	8486040.03	8486040.11	0.2689	0.2150
Mercury	18539-05-18 18:28 G	8492428.16	8492428.27	8492428.39	0.2647	0.1141
Mercury	18541-11-15 21:07 G	8493340.27	8493340.38	8493340.48	0.2687	0.1307
Mercury	18552-05-20 16:48 G	8497179.07	8497179.20	8497179.32	0.2651	0.0647
Mercury	18554-11-18 19:12 G	8498091.18	8498091.30	8498091.43	0.2689	0.0525
Mercury	18572-05-16 02:09 G	8504479.58	8504479.59	8504479.59	0.2643	0.2636
Mercury	18585-05-19 00:00 G	8509230.38	8509230.50	8509230.63	0.2647	0.0767
Mercury	18587-11-17 02:24 G	8510142.48	8510142.60	8510142.72	0.2687	0.0961
Mercury	18598-05-21 22:19 G	8513981.31	8513981.43	8513981.54	0.2653	0.1151
Mercury	18600-11-20 00:57 G	8514893.42	8514893.54	8514893.65	0.2689	0.1053
Mercury	18618-05-18 07:26 G	8521281.73	8521281.81	8521281.88	0.2644	0.2170
Mercury	18620-11-15 09:50 G	8522193.86	8522193.91	8522193.97	0.2684	0.2359
Mercury	18631-05-21 05:31 G	8526032.60	8526032.73	8526032.86	0.2648	0.0393
Mercury	18633-11-18 07:40 G	8526944.70	8526944.82	8526944.95	0.2687	0.0581
Venus	18634-05-07 07:55 G	8527114.69	8527114.83	8527114.96	0.2652	0.1089
Venus	18642-05-05 02:24 G	8530034.49	8530034.60	8530034.71	0.2648	0.1881
Mercury	18644-05-23 03:50 G	8530783.56	8530783.66	8530783.77	0.2654	0.1492
Mercury	18646-11-21 06:28 G	8531695.66	8531695.77	8531695.88	0.2689	0.1403
Mercury	18664-05-18 12:43 G	8538083.94	8538084.03	8538084.12	0.2645	0.1928
Mercury	18666-11-16 15:21 G	8538996.06	8538996.14	8538996.21	0.2685	0.2113
Mercury	18677-05-21 11:02 G	8542834.83	8542834.96	8542835.09	0.2649	0.0097
Mercury	18679-11-19 13:12 G	8543746.92	8543747.05	8543747.18	0.2687	0.0151
Mercury	18690-05-24 09:07 G	8547585.80	8547585.88	8547585.97	0.2654	0.1884
Mercury	18692-11-21 12:00 G	8548497.90	8548498.00	8548498.09	0.2690	0.1828
Mercury	18710-05-20 18:14 G	8554886.15	8554886.26	8554886.37	0.2645	0.1382
Mercury	18712-11-17 20:38 G	8555798.26	8555798.36	8555798.46	0.2685	0.1592
Mercury	18723-05-23 16:33 G	8559637.06	8559637.19	8559637.31	0.2651	0.0358
Mercury	18725-11-20 18:43 G	8560549.16	8560549.28	8560549.41	0.2689	0.0199
Mercury	18736-05-25 14:38 G	8564388.05	8564388.11	8564388.18	0.2655	0.2293
Mercury	18738-11-23 17:16 G	8565300.16	8565300.22	8565300.29	0.2689	0.2243

Venus	18755-11-06 14:09 G	8571491.94	8571492.09	8571492.25	0.2681	0.0820
Mercury	18756-05-20 23:45 G	8571688.37	8571688.49	8571688.61	0.2646	0.1143
Mercury	18758-11-19 01:55 G	8572600.48	8572600.58	8572600.69	0.2685	0.1371
Mercury	18769-05-23 21:50 G	8576439.29	8576439.41	8576439.53	0.2652	0.0877
Mercury	18771-11-22 00:14 G	8577351.39	8577351.51	8577351.64	0.2689	0.0722
Mercury	18782-05-26 20:24 G	8581190.33	8581190.35	8581190.36	0.2655	0.2631
Mercury	18784-11-23 23:02 G	8582102.43	8582102.46	8582102.48	0.2689	0.2606
Mercury	18789-05-19 06:57 G	8583739.76	8583739.79	8583739.81	0.2643	0.2579
Mercury	18802-05-22 05:02 G	8588490.58	8588490.71	8588490.84	0.2648	0.0617
Mercury	18804-11-19 07:26 G	8589402.69	8589402.81	8589402.93	0.2686	0.0836
Mercury	18815-05-25 03:21 G	8593241.52	8593241.64	8593241.76	0.2653	0.1105
Mercury	18817-11-22 05:45 G	8594153.62	8594153.74	8594153.86	0.2690	0.0961
Mercury	18835-05-20 12:28 G	8600541.94	8600542.02	8600542.09	0.2643	0.2129
Mercury	18837-11-17 15:07 G	8601454.07	8601454.13	8601454.19	0.2683	0.2332
Mercury	18848-05-22 10:33 G	8605292.81	8605292.94	8605293.07	0.2650	0.0337
Mercury	18850-11-20 12:57 G	8606204.92	8606205.04	8606205.16	0.2688	0.0562
Mercury	18861-05-25 08:52 G	8610043.77	8610043.87	8610043.97	0.2653	0.1652
Mercury	18863-11-23 11:02 G	8610955.86	8610955.96	8610956.07	0.2689	0.1511
Venus	18877-05-08 04:19 G	8615870.53	8615870.68	8615870.83	0.2641	0.1110
Mercury	18881-05-20 17:45 G	8617344.15	8617344.24	8617344.34	0.2644	0.1755
Mercury	18883-11-18 20:24 G	8618256.27	8618256.35	8618256.43	0.2683	0.1996
Mercury	18894-05-23 16:04 G	8622095.04	8622095.17	8622095.30	0.2650	0.0152
Mercury	18896-11-20 18:14 G	8623007.14	8623007.26	8623007.39	0.2689	0.0095
Mercury	18907-05-27 14:24 G	8626846.02	8626846.10	8626846.19	0.2654	0.1929
Mercury	18909-11-24 16:48 G	8627758.11	8627758.20	8627758.29	0.2689	0.1787
Mercury	18927-05-22 23:16 G	8634146.36	8634146.47	8634146.58	0.2646	0.1421
Mercury	18929-11-20 01:40 G	8635058.47	8635058.57	8635058.67	0.2685	0.1635
Mercury	18940-05-24 21:21 G	8638897.27	8638897.39	8638897.52	0.2650	0.0478
Mercury	18942-11-22 23:45 G	8639809.36	8639809.49	8639809.61	0.2689	0.0254
Mercury	18953-05-27 20:09 G	8643648.29	8643648.34	8643648.38	0.2655	0.2428

Mercury	18955-11-25 22:19 G	8644560.37	8644560.43	8644560.49	0.2689	0.2320
Mercury	18973-05-23 04:33 G	8650948.57	8650948.69	8650948.81	0.2647	0.0938
Mercury	18975-11-21 06:57 G	8651860.68	8651860.79	8651860.91	0.2686	0.1191
Mercury	18986-05-26 03:07 G	8655699.50	8655699.63	8655699.75	0.2651	0.0882
Mercury	18988-11-23 05:02 G	8656611.59	8656611.71	8656611.83	0.2689	0.0659
Venus	18998-11-07 03:50 G	8660247.51	8660247.66	8660247.81	0.2686	0.0873

20TH MILLENNIUM CE

This is a list of transits visible from Moon in the 20th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	19001-11-27 03:50 G		8661362.65	8661362.66	8661362.68	0.2689	0.2660	
Mercury	19006-05-22 12:00 G		8662999.94	8663000.00	8663000.05	0.2644	0.2396	
Mercury	19008-11-19 14:52 G		8663912.09	8663912.12	8663912.16	0.2681	0.2576	
Mercury	19019-05-25 10:04 G		8667750.79	8667750.92	8667751.05	0.2648	0.0682	
Mercury	19021-11-22 12:28 G		8668662.90	8668663.02	8668663.14	0.2687	0.0923	
Mercury	19032-05-27 08:38 G		8672501.75	8672501.86	8672501.97	0.2653	0.1327	
Mercury	19034-11-25 10:33 G		8673413.83	8673413.94	8673414.06	0.2689	0.1101	
Mercury	19052-05-22 17:16 G		8679802.15	8679802.22	8679802.29	0.2645	0.2158	
Mercury	19054-11-20 20:09 G		8680714.29	8680714.34	8680714.40	0.2683	0.2362	
Mercury	19065-05-25 15:36 G		8684553.02	8684553.15	8684553.28	0.2648	0.0152	
Mercury	19067-11-23 17:45 G		8685465.12	8685465.24	8685465.36	0.2687	0.0406	
Mercury	19078-05-28 14:09 G		8689303.99	8689304.09	8689304.19	0.2654	0.1620	
Mercury	19080-11-25 16:19 G		8690216.08	8690216.18	8690216.29	0.2689	0.1440	

Mercury	19098-05-23 22:33 G	8696604.34	8696604.44	8696604.55	0.2645	0.1651
Mercury	19100-11-22 01:26 G	8697516.47	8697516.56	8697516.65	0.2685	0.1873
Mercury	19111-05-27 21:07 G	8701355.25	8701355.38	8701355.51	0.2650	0.0109
Mercury	19113-11-24 23:16 G	8702267.34	8702267.47	8702267.59	0.2687	0.0159
Venus	19120-05-11 09:21 G	8704626.75	8704626.89	8704627.03	0.2654	0.0982
Mercury	19124-05-29 19:26 G	8706106.24	8706106.31	8706106.39	0.2655	0.2136
Mercury	19126-11-27 21:50 G	8707018.32	8707018.41	8707018.49	0.2690	0.1966
Venus	19128-05-09 05:31 G	8707546.62	8707546.73	8707546.85	0.2652	0.1742
Mercury	19144-05-25 04:04 G	8713406.56	8713406.67	8713406.79	0.2645	0.1359
Mercury	19146-11-23 06:43 G	8714318.68	8714318.78	8714318.88	0.2685	0.1623
Mercury	19157-05-28 02:38 G	8718157.48	8718157.61	8718157.73	0.2652	0.0648
Mercury	19159-11-26 04:48 G	8719069.57	8719069.70	8719069.82	0.2688	0.0385
Mercury	19170-05-31 00:57 G	8722908.49	8722908.54	8722908.60	0.2655	0.2387
Mercury	19172-11-28 03:07 G	8723820.56	8723820.63	8723820.70	0.2689	0.2216
Mercury	19190-05-26 09:36 G	8730208.78	8730208.90	8730209.03	0.2646	0.0888
Mercury	19192-11-23 12:00 G	8731120.89	8731121.00	8731121.12	0.2685	0.1161
Mercury	19203-05-29 08:09 G	8734959.72	8734959.84	8734959.96	0.2653	0.0918
Mercury	19205-11-26 10:19 G	8735871.81	8735871.93	8735872.05	0.2689	0.0665
Mercury	19223-05-24 16:48 G	8742260.15	8742260.20	8742260.25	0.2643	0.2457
Mercury	19225-11-21 20:09 G	8743172.32	8743172.34	8743172.35	0.2682	0.2653
Mercury	19236-05-26 15:07 G	8747011.00	8747011.13	8747011.26	0.2648	0.0519
Mercury	19238-11-24 17:31 G	8747923.11	8747923.23	8747923.35	0.2686	0.0824
Venus	19241-11-09 14:38 G	8749003.95	8749004.11	8749004.26	0.2685	0.0691
Mercury	19249-05-29 13:26 G	8751761.95	8751762.06	8751762.17	0.2653	0.1403
Mercury	19251-11-27 15:36 G	8752674.04	8752674.15	8752674.27	0.2689	0.1160
Mercury	19269-05-24 22:19 G	8759062.34	8759062.43	8759062.52	0.2644	0.1945
Mercury	19271-11-23 01:12 G	8759974.48	8759974.55	8759974.62	0.2683	0.2196
Mercury	19282-05-27 20:38 G	8763813.23	8763813.36	8763813.49	0.2650	0.0173
Mercury	19284-11-24 23:02 G	8764725.33	8764725.46	8764725.58	0.2687	0.0443
Mercury	19295-05-30 19:12 G	8768564.20	8768564.30	8768564.39	0.2653	0.1735

Mercury	19297-11-27 21:07 G	8769476.28	8769476.38	8769476.48	0.2689	0.1474
Mercury	19315-05-27 03:50 G	8775864.55	8775864.66	8775864.76	0.2645	0.1692
Mercury	19317-11-24 06:43 G	8776776.69	8776776.78	8776776.86	0.2683	0.1944
Mercury	19328-05-29 01:55 G	8780615.45	8780615.58	8780615.71	0.2650	0.0316
Mercury	19330-11-27 04:19 G	8781527.56	8781527.68	8781527.81	0.2688	0.0054
Mercury	19341-06-01 00:43 G	8785366.46	8785366.53	8785366.60	0.2654	0.2164
Mercury	19343-11-30 02:38 G	8786278.52	8786278.61	8786278.70	0.2689	0.1911
Mercury	19361-05-27 09:07 G	8792666.76	8792666.88	8792667.00	0.2647	0.1164
Venus	19363-05-13 13:40 G	8793382.92	8793383.07	8793383.22	0.2642	0.1164
Mercury	19363-11-25 12:00 G	8793578.90	8793579.00	8793579.11	0.2684	0.1430
Mercury	19374-05-30 07:26 G	8797417.69	8797417.81	8797417.94	0.2651	0.0591
Mercury	19376-11-27 09:50 G	8798329.78	8798329.91	8798330.03	0.2688	0.0297
Mercury	19387-06-02 06:14 G	8802168.75	8802168.76	8802168.78	0.2656	0.2612
Mercury	19389-11-30 08:09 G	8803080.79	8803080.84	8803080.90	0.2688	0.2361
Mercury	19407-05-29 14:24 G	8809468.98	8809469.10	8809469.23	0.2648	0.0932
Mercury	19409-11-26 17:16 G	8810381.11	8810381.22	8810381.33	0.2686	0.1205
Mercury	19420-05-31 12:57 G	8814219.93	8814220.04	8814220.16	0.2651	0.1123
Mercury	19422-11-29 15:07 G	8815132.01	8815132.13	8815132.25	0.2688	0.0808
Mercury	19440-05-26 21:50 G	8821520.35	8821520.41	8821520.46	0.2644	0.2360
Mercury	19442-11-25 01:26 G	8822432.53	8822432.56	8822432.59	0.2681	0.2582
Mercury	19453-05-29 19:55 G	8826271.20	8826271.33	8826271.46	0.2648	0.0390
Mercury	19455-11-27 22:33 G	8827183.32	8827183.44	8827183.56	0.2687	0.0698
Mercury	19466-06-01 18:43 G	8831022.17	8831022.28	8831022.39	0.2653	0.1389
Mercury	19468-11-29 20:38 G	8831934.25	8831934.36	8831934.48	0.2688	0.1083
Venus	19484-11-11 03:07 G	8837759.50	8837759.63	8837759.76	0.2681	0.1540
Mercury	19486-05-28 03:07 G	8838322.54	8838322.63	8838322.72	0.2645	0.1960
Mercury	19488-11-25 06:43 G	8839234.70	8839234.78	8839234.85	0.2683	0.2170
Mercury	19499-05-31 01:26 G	8843073.43	8843073.56	8843073.70	0.2648	0.0139
Mercury	19501-11-29 04:04 G	8843985.54	8843985.67	8843985.79	0.2687	0.0458
Mercury	19512-06-03 00:14 G	8847824.43	8847824.51	8847824.60	0.2655	0.1939

Mercury	19514-12-02 02:09 G	8848736.49	8848736.59	8848736.69	0.2689	0.1628
Mercury	19532-05-29 08:24 G	8855124.74	8855124.85	8855124.96	0.2646	0.1543
Mercury	19534-11-27 11:45 G	8856036.90	8856036.99	8856037.08	0.2684	0.1810
Mercury	19545-06-01 07:12 G	8859875.67	8859875.80	8859875.93	0.2650	0.0384
Mercury	19547-11-30 09:21 G	8860787.77	8860787.89	8860788.02	0.2687	0.0048
Mercury	19558-06-04 05:45 G	8864626.67	8864626.74	8864626.81	0.2655	0.2190
Mercury	19560-12-02 07:40 G	8865538.73	8865538.82	8865538.91	0.2689	0.1892
Mercury	19578-05-30 13:55 G	8871926.96	8871927.08	8871927.20	0.2646	0.1207
Mercury	19580-11-27 17:02 G	8872839.11	8872839.21	8872839.31	0.2685	0.1499
Mercury	19591-06-02 12:43 G	8876677.90	8876678.03	8876678.15	0.2652	0.0753
Mercury	19593-11-30 14:52 G	8877590.00	8877590.12	8877590.24	0.2688	0.0389
Venus	19606-05-15 10:19 G	8882138.79	8882138.93	8882139.07	0.2653	0.1002
Mercury	19606-12-03 13:12 G	8882340.99	8882341.05	8882341.10	0.2689	0.2401
Venus	19614-05-13 06:28 G	8885058.71	8885058.77	8885058.82	0.2654	0.2447
Mercury	19624-05-30 19:26 G	8888729.19	8888729.31	8888729.44	0.2647	0.0712
Mercury	19626-11-28 22:19 G	8889641.32	8889641.43	8889641.55	0.2685	0.1054
Mercury	19637-06-02 18:14 G	8893480.14	8893480.26	8893480.37	0.2653	0.1118
Mercury	19639-12-01 20:24 G	8894392.23	8894392.35	8894392.47	0.2689	0.0779
Mercury	19657-05-29 02:24 G	8900780.53	8900780.60	8900780.67	0.2644	0.2204
Mercury	19659-11-27 06:28 G	8901692.72	8901692.77	8901692.82	0.2682	0.2409
Mercury	19670-06-01 00:57 G	8905531.41	8905531.54	8905531.67	0.2648	0.0446
Mercury	19672-11-29 03:50 G	8906443.54	8906443.66	8906443.78	0.2685	0.0773
Mercury	19683-06-03 23:31 G	8910282.38	8910282.48	8910282.59	0.2653	0.1576
Mercury	19685-12-02 01:40 G	8911194.46	8911194.57	8911194.68	0.2689	0.1221
Mercury	19703-05-31 07:55 G	8917582.74	8917582.83	8917582.92	0.2644	0.1955
Mercury	19705-11-28 11:45 G	8918494.92	8918494.99	8918495.06	0.2682	0.2208
Mercury	19716-06-02 06:28 G	8922333.64	8922333.77	8922333.90	0.2650	0.0103
Mercury	19718-12-01 09:07 G	8923245.76	8923245.88	8923246.01	0.2687	0.0264
Venus	19727-11-14 12:28 G	8926515.87	8926516.02	8926516.17	0.2688	0.0307
Mercury	19729-06-05 05:16 G	8927084.63	8927084.72	8927084.81	0.2653	0.1880

Mercury	19731-12-04 07:12 G	8927996.70	8927996.80	8927996.90	0.2689	0.1526
Mercury	19749-05-31 13:26 G	8934384.95	8934385.06	8934385.17	0.2645	0.1421
Mercury	19751-11-29 17:02 G	8935297.11	8935297.21	8935297.30	0.2682	0.1705
Mercury	19762-06-03 12:00 G	8939135.87	8939136.00	8939136.13	0.2651	0.0333
Mercury	19764-12-01 14:38 G	8940047.98	8940048.11	8940048.23	0.2688	0.0053
Mercury	19775-06-06 10:48 G	8943886.90	8943886.95	8943887.00	0.2655	0.2410
Mercury	19777-12-04 12:43 G	8944798.95	8944799.03	8944799.11	0.2688	0.2042
Mercury	19795-06-01 18:57 G	8951187.17	8951187.29	8951187.41	0.2647	0.1120
Mercury	19797-11-29 22:19 G	8952099.33	8952099.43	8952099.53	0.2684	0.1448
Mercury	19808-06-04 17:31 G	8955938.11	8955938.23	8955938.35	0.2651	0.0892
Mercury	19810-12-03 19:55 G	8956850.21	8956850.33	8956850.45	0.2688	0.0503
Mercury	19823-12-06 18:14 G	8961601.20	8961601.26	8961601.32	0.2688	0.2321
Mercury	19828-05-31 01:55 G	8963238.55	8963238.58	8963238.61	0.2643	0.2568
Mercury	19841-06-03 00:14 G	8967989.38	8967989.51	8967989.64	0.2648	0.0704
Mercury	19843-12-02 03:36 G	8968901.54	8968901.65	8968901.77	0.2686	0.1021
Venus	19849-05-17 21:36 G	8970895.26	8970895.40	8970895.54	0.2647	0.1345
Mercury	19854-06-05 23:02 G	8972740.35	8972740.46	8972740.58	0.2652	0.1163
Mercury	19856-12-04 01:12 G	8973652.43	8973652.55	8973652.67	0.2688	0.0760
Venus	19857-05-15 11:02 G	8973814.85	8973814.96	8973815.07	0.2643	0.2008
Mercury	19874-06-01 07:12 G	8980040.74	8980040.80	8980040.87	0.2644	0.2258
Mercury	19876-11-29 11:45 G	8980952.95	8980952.99	8980953.04	0.2680	0.2457
Mercury	19887-06-04 05:45 G	8984791.61	8984791.74	8984791.87	0.2648	0.0298
Mercury	19889-12-02 08:52 G	8985703.75	8985703.87	8985703.99	0.2686	0.0665
Mercury	19900-06-07 04:48 G	8989542.59	8989542.70	8989542.80	0.2654	0.1661
Mercury	19902-12-06 06:43 G	8990454.67	8990454.78	8990454.89	0.2688	0.1258
Mercury	19920-06-02 12:43 G	8996842.93	8996843.03	8996843.13	0.2646	0.1755
Mercury	19922-12-01 17:02 G	8997755.13	8997755.21	8997755.29	0.2682	0.2012
Mercury	19933-06-05 11:16 G	9001593.84	9001593.97	9001594.10	0.2649	0.0071
Mercury	19935-12-04 14:09 G	9002505.97	9002506.09	9002506.22	0.2686	0.0324
Mercury	19946-06-08 10:19 G	9006344.85	9006344.93	9006345.01	0.2655	0.2030

Mercury	19948-12-06 12:14 G	9007256.92	9007257.01	9007257.11	0.2689	0.1619
Venus	19962-11-18 19:12 G	9012352.26	9012352.30	9012352.34	0.2676	0.2587
Mercury	19966-06-03 18:00 G	9013645.15	9013645.25	9013645.36	0.2646	0.1520
Mercury	19968-12-01 22:19 G	9014557.34	9014557.43	9014557.52	0.2684	0.1790
Venus	19970-11-16 04:33 G	9015271.55	9015271.69	9015271.83	0.2677	0.1465
Mercury	19979-06-06 16:48 G	9018396.08	9018396.20	9018396.33	0.2650	0.0555
Mercury	19981-12-04 19:40 G	9019308.19	9019308.32	9019308.44	0.2687	0.0125
Mercury	19992-06-08 15:50 G	9023147.11	9023147.16	9023147.21	0.2655	0.2411
Mercury	19994-12-07 17:45 G	9024059.16	9024059.24	9024059.32	0.2689	0.2009

21ST MILLENNIUM CE

This is a list of transits visible from Moon in the 21st millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	20012-06-03 23:31 G		9030447.36	9030447.48	9030447.61	0.2646	0.0951	
Mercury	20014-12-03 03:21 G		9031359.54	9031359.64	9031359.75	0.2684	0.1287	
Mercury	20025-06-06 22:33 G		9035198.31	9035198.44	9035198.56	0.2652	0.0832	
Mercury	20027-12-06 01:12 G		9036110.42	9036110.55	9036110.67	0.2687	0.0431	
Mercury	20040-12-07 23:02 G		9040861.41	9040861.46	9040861.51	0.2689	0.2435	
Mercury	20045-06-02 06:28 G		9042498.73	9042498.77	9042498.80	0.2644	0.2526	
Mercury	20047-12-01 11:45 G		9043410.99	9043410.99	9043411.00	0.2681	0.2675	
Mercury	20058-06-05 05:16 G		9047249.59	9047249.72	9047249.84	0.2647	0.0709	
Mercury	20060-12-03 08:52 G		9048161.75	9048161.87	9048161.98	0.2684	0.1074	
Mercury	20071-06-08 04:04 G		9052000.55	9052000.67	9052000.78	0.2653	0.1385	

Mercury	20073-12-06 06:28 G	9052912.66	9052912.77	9052912.89	0.2688	0.0954
Mercury	20091-06-03 12:00 G	9059300.92	9059301.00	9059301.07	0.2644	0.2180
Venus	20092-05-18 13:12 G	9059650.90	9059651.05	9059651.20	0.2648	0.0646
Mercury	20093-12-01 17:02 G	9060213.16	9060213.21	9060213.26	0.2682	0.2402
Mercury	20104-06-06 10:33 G	9064051.81	9064051.94	9064052.08	0.2649	0.0191
Mercury	20106-12-05 14:09 G	9064963.97	9064964.09	9064964.21	0.2685	0.0556
Mercury	20117-06-09 09:36 G	9068802.79	9068802.90	9068803.00	0.2654	0.1614
Mercury	20119-12-08 12:00 G	9069714.89	9069715.00	9069715.11	0.2689	0.1183
Mercury	20137-06-04 17:31 G	9076103.13	9076103.23	9076103.33	0.2645	0.1750
Mercury	20139-12-03 22:19 G	9077015.35	9077015.43	9077015.50	0.2682	0.2018
Mercury	20150-06-07 16:19 G	9080854.04	9080854.18	9080854.31	0.2651	0.0160
Mercury	20152-12-05 19:26 G	9081766.19	9081766.31	9081766.44	0.2687	0.0295
Mercury	20163-06-10 15:07 G	9085605.06	9085605.13	9085605.20	0.2654	0.2179
Mercury	20165-12-08 17:16 G	9086517.12	9086517.22	9086517.31	0.2688	0.1711
Mercury	20183-06-05 23:02 G	9092905.34	9092905.46	9092905.57	0.2646	0.1336
Mercury	20185-12-04 03:36 G	9093817.55	9093817.65	9093817.74	0.2682	0.1667
Mercury	20196-06-07 21:36 G	9097656.27	9097656.40	9097656.53	0.2651	0.0584
Mercury	20198-12-07 00:57 G	9098568.41	9098568.54	9098568.66	0.2688	0.0187
Venus	20205-11-20 14:09 G	9101108.02	9101108.09	9101108.15	0.2688	0.2402
Mercury	20209-06-11 20:52 G	9102407.33	9102407.37	9102407.42	0.2655	0.2467
Mercury	20211-12-10 22:48 G	9103319.36	9103319.45	9103319.53	0.2688	0.1984
Venus	20213-11-18 08:38 G	9104027.74	9104027.86	9104027.98	0.2689	0.1655
Mercury	20229-06-07 04:19 G	9109707.56	9109707.68	9109707.81	0.2648	0.1020
Mercury	20231-12-06 08:52 G	9110619.76	9110619.87	9110619.97	0.2683	0.1332
Mercury	20242-06-10 03:21 G	9114458.51	9114458.64	9114458.76	0.2651	0.0967
Mercury	20244-12-08 06:14 G	9115370.64	9115370.76	9115370.88	0.2688	0.0508
Mercury	20257-12-11 04:19 G	9120121.63	9120121.68	9120121.72	0.2688	0.2481
Mercury	20262-06-05 11:16 G	9121758.94	9121758.97	9121759.00	0.2644	0.2562
Mercury	20275-06-08 09:50 G	9126509.78	9126509.91	9126510.04	0.2649	0.0502
Mercury	20277-12-06 14:09 G	9127421.97	9127422.09	9127422.20	0.2685	0.0874

Mercury	20288-06-10 08:52 G	9131260.76	9131260.87	9131260.98	0.2652	0.1355
Mercury	20290-12-09 11:31 G	9132172.86	9132172.98	9132173.10	0.2688	0.0885
Mercury	20308-06-06 16:33 G	9138561.11	9138561.19	9138561.28	0.2645	0.2022
Mercury	20310-12-05 22:19 G	9139473.37	9139473.43	9139473.50	0.2680	0.2236
Mercury	20321-06-09 15:21 G	9143312.01	9143312.14	9143312.28	0.2649	0.0256
Mercury	20323-12-08 19:26 G	9144224.19	9144224.31	9144224.43	0.2686	0.0644
Mercury	20334-06-12 14:38 G	9148063.01	9148063.11	9148063.20	0.2654	0.1845
Venus	20335-05-23 01:40 G	9148407.46	9148407.57	9148407.69	0.2653	0.1716
Mercury	20336-12-10 17:02 G	9148975.10	9148975.21	9148975.32	0.2688	0.1331
Venus	20343-05-20 18:14 G	9151327.14	9151327.26	9151327.39	0.2647	0.1685
Mercury	20354-06-07 22:04 G	9155363.32	9155363.42	9155363.52	0.2646	0.1764
Mercury	20356-12-06 03:36 G	9156275.57	9156275.65	9156275.73	0.2682	0.2023
Mercury	20367-06-10 20:52 G	9160114.24	9160114.37	9160114.51	0.2649	0.0326
Mercury	20369-12-09 00:28 G	9161026.40	9161026.52	9161026.65	0.2686	0.0164
Mercury	20380-06-12 20:09 G	9164865.27	9164865.34	9164865.42	0.2656	0.2131
Mercury	20382-12-11 22:33 G	9165777.34	9165777.44	9165777.54	0.2688	0.1639
Mercury	20400-06-08 03:36 G	9172165.53	9172165.65	9172165.77	0.2647	0.1265
Mercury	20402-12-07 08:52 G	9173077.77	9173077.87	9173077.97	0.2683	0.1561
Mercury	20413-06-11 02:38 G	9176916.48	9176916.61	9176916.74	0.2651	0.0578
Mercury	20415-12-10 06:00 G	9177828.63	9177828.75	9177828.87	0.2686	0.0103
Mercury	20428-12-12 03:50 G	9182579.59	9182579.66	9182579.74	0.2688	0.2159
Mercury	20446-06-09 09:07 G	9188967.76	9188967.88	9188968.01	0.2647	0.0935
Mercury	20448-12-07 13:55 G	9189879.98	9189880.08	9189880.19	0.2684	0.1299
Venus	20456-11-19 08:09 G	9192783.69	9192783.84	9192783.98	0.2675	0.1334
Mercury	20459-06-12 08:09 G	9193718.72	9193718.84	9193718.96	0.2653	0.1120
Mercury	20461-12-10 11:31 G	9194630.86	9194630.98	9194631.10	0.2687	0.0633
Mercury	20474-12-13 09:21 G	9199381.83	9199381.89	9199381.94	0.2688	0.2393
Mercury	20479-06-07 15:36 G	9201019.10	9201019.15	9201019.21	0.2645	0.2407
Mercury	20481-12-05 22:33 G	9201931.41	9201931.44	9201931.47	0.2680	0.2571
Mercury	20492-06-09 14:38 G	9205769.98	9205770.11	9205770.25	0.2648	0.0482

Mercury	20494-12-08 19:12 G	9206682.18	9206682.30	9206682.42	0.2684	0.0875
Mercury	20505-06-13 13:40 G	9210520.96	9210521.07	9210521.19	0.2654	0.1423
Mercury	20507-12-12 16:48 G	9211433.09	9211433.20	9211433.32	0.2688	0.0913
Mercury	20525-06-08 21:21 G	9217821.31	9217821.39	9217821.47	0.2645	0.2111
Mercury	20527-12-08 03:36 G	9218733.60	9218733.65	9218733.71	0.2681	0.2311
Mercury	20538-06-11 20:09 G	9222572.21	9222572.34	9222572.48	0.2649	0.0103
Mercury	20540-12-10 00:28 G	9223484.40	9223484.52	9223484.64	0.2684	0.0535
Mercury	20551-06-14 19:12 G	9227323.21	9227323.30	9227323.40	0.2654	0.1895
Mercury	20553-12-12 22:04 G	9228235.32	9228235.42	9228235.53	0.2688	0.1364
Mercury	20571-06-10 02:52 G	9234623.51	9234623.62	9234623.72	0.2645	0.1568
Mercury	20573-12-08 08:52 G	9235535.78	9235535.87	9235535.96	0.2681	0.1847
Venus	20578-05-23 18:43 G	9237163.12	9237163.28	9237163.45	0.2645	0.0318
Mercury	20584-06-12 01:55 G	9239374.44	9239374.58	9239374.71	0.2651	0.0275
Mercury	20586-12-11 06:00 G	9240286.63	9240286.75	9240286.87	0.2686	0.0171
Mercury	20597-06-15 00:57 G	9244125.47	9244125.54	9244125.61	0.2654	0.2258
Mercury	20599-12-14 03:36 G	9245037.55	9245037.65	9245037.74	0.2688	0.1698
Mercury	20617-06-11 08:24 G	9251425.73	9251425.85	9251425.97	0.2646	0.1304
Mercury	20619-12-10 14:09 G	9252337.99	9252338.09	9252338.19	0.2681	0.1622
Mercury	20630-06-14 07:12 G	9256176.68	9256176.80	9256176.93	0.2652	0.0781
Mercury	20632-12-12 11:16 G	9257088.85	9257088.97	9257089.09	0.2687	0.0294
Mercury	20645-12-15 09:07 G	9261839.80	9261839.88	9261839.95	0.2688	0.2104
Mercury	20663-06-12 13:55 G	9268227.95	9268228.08	9268228.21	0.2648	0.0757
Mercury	20665-12-10 19:26 G	9269140.20	9269140.31	9269140.42	0.2683	0.1126
Mercury	20676-06-14 12:57 G	9272978.92	9272979.04	9272979.16	0.2652	0.1050
Mercury	20678-12-13 16:33 G	9273891.07	9273891.19	9273891.31	0.2687	0.0540
Venus	20691-11-24 11:31 G	9278619.83	9278619.98	9278620.12	0.2682	0.1108
Mercury	20691-12-16 14:38 G	9278642.07	9278642.11	9278642.14	0.2687	0.2559
Mercury	20696-06-09 20:38 G	9280279.29	9280279.36	9280279.42	0.2644	0.2325
Mercury	20698-12-09 03:50 G	9281191.62	9281191.66	9281191.71	0.2678	0.2484
Venus	20699-11-22 04:04 G	9281539.62	9281539.67	9281539.71	0.2686	0.2551

Mercury	20709-06-13 19:26 G	9285030.18	9285030.31	9285030.44	0.2649	0.0503
Mercury	20711-12-13 00:43 G	9285942.41	9285942.53	9285942.64	0.2685	0.0898
Mercury	20722-06-16 18:28 G	9289781.17	9289781.27	9289781.38	0.2653	0.1614
Mercury	20724-12-14 21:50 G	9290693.30	9290693.41	9290693.53	0.2687	0.1045
Mercury	20742-06-12 01:55 G	9297081.49	9297081.58	9297081.67	0.2645	0.1993
Mercury	20744-12-10 09:07 G	9297993.81	9297993.88	9297993.95	0.2679	0.2223
Mercury	20755-06-15 00:57 G	9301832.40	9301832.54	9301832.67	0.2650	0.0061
Mercury	20757-12-13 06:00 G	9302744.63	9302744.75	9302744.87	0.2685	0.0416
Mercury	20768-06-17 00:14 G	9306583.42	9306583.51	9306583.61	0.2654	0.1889
Mercury	20770-12-16 03:21 G	9307495.54	9307495.64	9307495.75	0.2687	0.1309
Mercury	20788-06-12 07:26 G	9313883.70	9313883.81	9313883.92	0.2647	0.1601
Mercury	20790-12-11 14:24 G	9314796.01	9314796.10	9314796.18	0.2681	0.1847
Mercury	20801-06-15 06:28 G	9318634.64	9318634.77	9318634.90	0.2650	0.0337
Mercury	20803-12-14 11:16 G	9319546.84	9319546.97	9319547.09	0.2685	0.0189
Mercury	20814-06-18 06:00 G	9323385.70	9323385.75	9323385.80	0.2656	0.2435
Mercury	20816-12-16 08:52 G	9324297.78	9324297.87	9324297.96	0.2688	0.1833
Venus	20821-05-26 03:50 G	9325919.54	9325919.66	9325919.77	0.2656	0.1653
Venus	20829-05-23 22:48 G	9328839.36	9328839.45	9328839.54	0.2652	0.2133
Mercury	20834-06-13 12:57 G	9330685.91	9330686.04	9330686.16	0.2647	0.1146
Mercury	20836-12-11 19:26 G	9331598.21	9331598.31	9331598.41	0.2683	0.1473
Mercury	20847-06-16 12:14 G	9335436.88	9335437.01	9335437.13	0.2651	0.0818
Mercury	20849-12-14 16:33 G	9336349.06	9336349.19	9336349.31	0.2686	0.0302
Mercury	20862-12-17 14:09 G	9341100.02	9341100.09	9341100.17	0.2688	0.2104
Mercury	20880-06-13 18:28 G	9347488.14	9347488.27	9347488.40	0.2647	0.0829
Mercury	20882-12-13 00:43 G	9348400.42	9348400.53	9348400.64	0.2683	0.1188
Mercury	20893-06-16 17:45 G	9352239.12	9352239.24	9352239.36	0.2653	0.1230
Mercury	20895-12-15 21:50 G	9353151.29	9353151.41	9353151.53	0.2686	0.0657
Mercury	20908-12-18 19:26 G	9357902.28	9357902.31	9357902.35	0.2688	0.2573
Mercury	20913-06-13 00:57 G	9359539.48	9359539.54	9359539.59	0.2645	0.2425
Mercury	20915-12-12 09:21 G	9360451.86	9360451.89	9360451.93	0.2679	0.2542

Mercury	20926-06-16 00:00 G	9364290.37	9364290.50	9364290.64	0.2648	0.0301
Mercury	20928-12-14 06:00 G	9365202.63	9365202.75	9365202.86	0.2683	0.0738
Venus	20934-11-26 21:50 G	9367376.38	9367376.41	9367376.44	0.2683	0.2604
Mercury	20939-06-18 23:31 G	9369041.37	9369041.48	9369041.58	0.2654	0.1577
Mercury	20941-12-17 03:21 G	9369953.53	9369953.64	9369953.75	0.2687	0.1017
Venus	20942-11-24 12:00 G	9370295.88	9370296.00	9370296.11	0.2678	0.1840
Mercury	20959-06-14 06:28 G	9376341.67	9376341.77	9376341.86	0.2646	0.1853
Mercury	20961-12-12 14:24 G	9377254.03	9377254.10	9377254.18	0.2680	0.2068
Mercury	20972-06-16 05:45 G	9381092.60	9381092.74	9381092.87	0.2650	0.0045
Mercury	20974-12-15 11:16 G	9382004.85	9382004.97	9382005.09	0.2684	0.0483
Mercury	20985-06-19 05:02 G	9385843.63	9385843.71	9385843.79	0.2655	0.2075
Mercury	20987-12-18 08:38 G	9386755.76	9386755.86	9386755.96	0.2688	0.1465

22ND MILLENNIUM CE

This is a list of transits visible from Moon in the 22nd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	21005-06-15 12:00 G		9393143.90	9393144.00	9393144.11	0.2646	0.1585	
Mercury	21007-12-14 19:40 G		9394056.23	9394056.32	9394056.41	0.2680	0.1865	
Mercury	21018-06-18 11:16 G		9397894.84	9397894.97	9397895.10	0.2652	0.0544	
Mercury	21020-12-16 16:33 G		9398807.07	9398807.19	9398807.31	0.2685	0.0026	
Mercury	21031-06-21 10:48 G		9402645.89	9402645.95	9402646.00	0.2655	0.2377	
Mercury	21033-12-19 13:55 G		9403557.99	9403558.08	9403558.17	0.2687	0.1735	
Mercury	21051-06-16 17:45 G		9409946.11	9409946.24	9409946.36	0.2647	0.1060	

Mercury	21053-12-15 00:57 G	9410858.43	9410858.54	9410858.64	0.2681	0.1386
Venus	21064-05-28 02:38 G	9414675.45	9414675.61	9414675.77	0.2644	0.0697
Mercury	21064-06-18 16:48 G	9414697.08	9414697.20	9414697.33	0.2652	0.0790
Mercury	21066-12-17 21:50 G	9415609.29	9415609.41	9415609.53	0.2686	0.0259
Mercury	21079-12-20 19:26 G	9420360.24	9420360.31	9420360.37	0.2687	0.2246
Mercury	21097-06-16 23:02 G	9426748.33	9426748.46	9426748.59	0.2649	0.0728
Mercury	21099-12-16 06:00 G	9427660.64	9427660.75	9427660.86	0.2682	0.1122
Mercury	21110-06-20 22:33 G	9431499.32	9431499.44	9431499.55	0.2653	0.1345
Mercury	21112-12-19 03:07 G	9432411.51	9432411.63	9432411.75	0.2687	0.0757
Mercury	21125-12-22 00:57 G	9437162.50	9437162.54	9437162.58	0.2687	0.2518
Mercury	21130-06-16 05:31 G	9438799.66	9438799.73	9438799.81	0.2645	0.2226
Mercury	21132-12-14 14:52 G	9439712.06	9439712.12	9439712.17	0.2678	0.2385
Mercury	21143-06-19 04:48 G	9443550.56	9443550.70	9443550.83	0.2650	0.0322
Mercury	21145-12-17 11:16 G	9444462.86	9444462.97	9444463.09	0.2684	0.0726
Mercury	21156-06-21 04:04 G	9448301.57	9448301.67	9448301.78	0.2653	0.1645
Mercury	21158-12-20 08:24 G	9449213.74	9449213.85	9449213.96	0.2686	0.1014
Mercury	21176-06-16 11:02 G	9455601.87	9455601.96	9455602.05	0.2646	0.1930
Venus	21177-11-28 12:00 G	9456131.84	9456132.00	9456132.16	0.2676	0.0603
Mercury	21178-12-15 19:55 G	9456514.26	9456514.33	9456514.41	0.2679	0.2110
Mercury	21189-06-19 10:19 G	9460352.79	9460352.93	9460353.06	0.2650	0.0137
Mercury	21191-12-18 16:33 G	9461265.07	9461265.19	9461265.31	0.2685	0.0349
Mercury	21202-06-22 09:50 G	9465103.84	9465103.91	9465103.99	0.2655	0.2140
Mercury	21204-12-20 13:55 G	9466015.98	9466016.08	9466016.18	0.2687	0.1481
Mercury	21222-06-17 16:33 G	9472404.07	9472404.19	9472404.31	0.2648	0.1394
Mercury	21224-12-16 01:12 G	9473316.45	9473316.55	9473316.64	0.2680	0.1661
Mercury	21235-06-20 15:50 G	9477155.03	9477155.16	9477155.30	0.2650	0.0483
Mercury	21237-12-18 21:50 G	9478067.29	9478067.41	9478067.53	0.2685	0.0040
Mercury	21248-06-22 15:36 G	9481906.12	9481906.15	9481906.18	0.2656	0.2549
Mercury	21250-12-21 19:26 G	9482818.22	9482818.31	9482818.39	0.2687	0.1858
Mercury	21268-06-17 22:04 G	9489206.30	9489206.42	9489206.54	0.2648	0.1153

Mercury	21270-12-17 06:14 G	9490118.66	9490118.76	9490118.86	0.2682	0.1457
Mercury	21281-06-20 21:36 G	9493957.28	9493957.40	9493957.52	0.2652	0.1005
Mercury	21283-12-20 03:07 G	9494869.51	9494869.63	9494869.75	0.2685	0.0410
Mercury	21296-12-22 00:43 G	9499620.46	9499620.53	9499620.60	0.2687	0.2214
Venus	21307-05-31 04:04 G	9503431.53	9503431.67	9503431.82	0.2658	0.0844
Mercury	21314-06-20 03:50 G	9506008.52	9506008.66	9506008.79	0.2648	0.0563
Venus	21315-05-29 00:28 G	9506351.51	9506351.52	9506351.52	0.2657	0.2652
Mercury	21316-12-18 11:31 G	9506920.86	9506920.98	9506921.09	0.2682	0.0963
Mercury	21327-06-23 03:21 G	9510759.52	9510759.64	9510759.75	0.2654	0.1286
Mercury	21329-12-21 08:38 G	9511671.74	9511671.86	9511671.97	0.2686	0.0691
Mercury	21342-12-24 06:00 G	9516422.73	9516422.75	9516422.77	0.2687	0.2646
Mercury	21347-06-18 09:50 G	9518059.84	9518059.91	9518059.99	0.2646	0.2221
Mercury	21349-12-16 20:09 G	9518972.29	9518972.34	9518972.40	0.2679	0.2320
Mercury	21360-06-20 09:21 G	9522810.76	9522810.89	9522811.03	0.2649	0.0304
Mercury	21362-12-19 16:33 G	9523723.08	9523723.19	9523723.31	0.2682	0.0761
Mercury	21373-06-23 08:52 G	9527561.78	9527561.87	9527561.97	0.2655	0.1867
Mercury	21375-12-22 13:55 G	9528473.97	9528474.08	9528474.19	0.2687	0.1202
Mercury	21393-06-18 15:36 G	9534862.05	9534862.15	9534862.24	0.2646	0.1831
Mercury	21395-12-18 01:26 G	9535774.48	9535774.56	9535774.63	0.2680	0.2033
Mercury	21406-06-22 14:52 G	9539612.99	9539613.12	9539613.26	0.2651	0.0247
Mercury	21408-12-20 21:50 G	9540525.29	9540525.41	9540525.54	0.2683	0.0278
Mercury	21419-06-25 14:38 G	9544364.03	9544364.11	9544364.19	0.2655	0.2103
Venus	21420-11-30 19:55 G	9544888.21	9544888.33	9544888.45	0.2686	0.1609
Mercury	21421-12-23 19:12 G	9545276.20	9545276.30	9545276.40	0.2687	0.1425
Venus	21428-11-28 12:57 G	9547807.99	9547808.04	9547808.09	0.2681	0.2508
Mercury	21439-06-20 21:07 G	9551664.27	9551664.38	9551664.50	0.2646	0.1421
Mercury	21441-12-19 06:28 G	9552576.68	9552576.77	9552576.86	0.2680	0.1679
Mercury	21452-06-22 20:38 G	9556415.23	9556415.36	9556415.49	0.2653	0.0577
Mercury	21454-12-22 03:21 G	9557327.52	9557327.64	9557327.76	0.2685	0.0055
Mercury	21467-12-25 00:28 G	9562078.44	9562078.52	9562078.60	0.2687	0.1935

Mercury	21485-06-21 02:52 G	9568466.49	9568466.62	9568466.74	0.2648	0.0956
Mercury	21487-12-20 11:45 G	9569378.88	9569378.99	9569379.09	0.2680	0.1310
Mercury	21498-06-24 02:09 G	9573217.47	9573217.59	9573217.72	0.2653	0.1005
Mercury	21500-12-23 08:38 G	9574129.74	9574129.86	9574129.98	0.2686	0.0435
Mercury	21513-12-26 05:45 G	9578880.68	9578880.74	9578880.81	0.2686	0.2210
Mercury	21518-06-20 08:52 G	9580517.83	9580517.87	9580517.91	0.2645	0.2513
Mercury	21520-12-18 20:38 G	9581430.33	9581430.36	9581430.39	0.2677	0.2554
Mercury	21531-06-23 08:24 G	9585268.71	9585268.85	9585268.98	0.2650	0.0656
Mercury	21533-12-21 17:02 G	9586181.09	9586181.21	9586181.32	0.2681	0.1015
Mercury	21544-06-25 07:55 G	9590019.72	9590019.83	9590019.94	0.2653	0.1434
Mercury	21546-12-24 13:55 G	9590931.96	9590932.08	9590932.19	0.2686	0.0797
Venus	21550-06-02 10:48 G	9592187.82	9592187.95	9592188.09	0.2647	0.1563
Venus	21558-05-30 22:33 G	9595107.41	9595107.44	9595107.47	0.2646	0.2591
Mercury	21559-12-27 11:16 G	9595682.97	9595682.97	9595682.98	0.2686	0.2677
Mercury	21564-06-20 14:38 G	9597320.04	9597320.11	9597320.18	0.2646	0.2252
Mercury	21566-12-20 01:40 G	9598232.52	9598232.57	9598232.63	0.2677	0.2363
Mercury	21577-06-23 13:55 G	9602070.94	9602071.08	9602071.21	0.2651	0.0114
Mercury	21579-12-22 22:04 G	9602983.31	9602983.42	9602983.54	0.2683	0.0561
Mercury	21590-06-26 13:26 G	9606821.97	9606822.06	9606822.16	0.2654	0.1808
Mercury	21592-12-24 18:57 G	9607734.18	9607734.29	9607734.40	0.2686	0.1133
Mercury	21610-06-21 20:09 G	9614122.23	9614122.34	9614122.44	0.2647	0.1695
Mercury	21612-12-20 06:57 G	9615034.70	9615034.79	9615034.87	0.2678	0.1877
Mercury	21623-06-24 19:26 G	9618873.18	9618873.31	9618873.45	0.2651	0.0157
Mercury	21625-12-23 03:21 G	9619785.52	9619785.64	9619785.76	0.2684	0.0338
Mercury	21636-06-26 19:26 G	9623624.25	9623624.31	9623624.37	0.2656	0.2336
Mercury	21638-12-26 00:28 G	9624536.42	9624536.52	9624536.62	0.2686	0.1582
Mercury	21656-06-22 01:40 G	9630924.45	9630924.57	9630924.68	0.2648	0.1412
Mercury	21658-12-21 12:00 G	9631836.91	9631837.00	9631837.10	0.2680	0.1668
Venus	21663-12-02 14:38 G	9633643.95	9633644.11	9633644.27	0.2672	0.0816
Mercury	21669-06-25 01:12 G	9635675.42	9635675.55	9635675.68	0.2651	0.0743

Mercury	21671-12-24 08:38 G	9636587.74	9636587.86	9636587.98	0.2684	0.0179
Mercury	21682-06-28 01:12 G	9640426.53	9640426.55	9640426.56	0.2657	0.2618
Mercury	21684-12-26 06:00 G	9641338.66	9641338.75	9641338.83	0.2686	0.1867
Mercury	21702-06-24 07:12 G	9647726.67	9647726.80	9647726.92	0.2649	0.0929
Mercury	21704-12-22 17:02 G	9648639.11	9648639.21	9648639.32	0.2681	0.1240
Mercury	21715-06-27 06:57 G	9652477.66	9652477.79	9652477.91	0.2653	0.1011
Mercury	21717-12-25 13:55 G	9653389.96	9653390.08	9653390.20	0.2684	0.0395
Mercury	21730-12-28 11:16 G	9658140.91	9658140.97	9658141.02	0.2687	0.2380
Mercury	21735-06-22 13:12 G	9659778.03	9659778.05	9659778.08	0.2646	0.2584
Mercury	21737-12-21 02:24 G	9660690.56	9660690.60	9660690.63	0.2676	0.2557
Mercury	21748-06-24 12:43 G	9664528.90	9664529.03	9664529.17	0.2649	0.0555
Mercury	21750-12-23 22:19 G	9665441.32	9665441.43	9665441.54	0.2682	0.0954
Mercury	21761-06-27 12:28 G	9669279.92	9669280.02	9669280.13	0.2655	0.1556
Mercury	21763-12-26 19:12 G	9670192.18	9670192.30	9670192.41	0.2685	0.0884
Mercury	21776-12-28 16:33 G	9674943.16	9674943.19	9674943.22	0.2687	0.2600
Mercury	21781-06-22 18:43 G	9676580.20	9676580.28	9676580.36	0.2647	0.2093
Mercury	21783-12-22 07:26 G	9677492.74	9677492.81	9677492.87	0.2678	0.2186
Venus	21793-06-03 04:33 G	9680943.53	9680943.69	9680943.84	0.2655	0.0056
Mercury	21794-06-25 18:28 G	9681331.13	9681331.27	9681331.40	0.2650	0.0123
Mercury	21796-12-24 03:36 G	9682243.53	9682243.65	9682243.76	0.2682	0.0576
Mercury	21807-06-29 18:14 G	9686082.17	9686082.26	9686082.35	0.2656	0.1891
Mercury	21809-12-28 00:28 G	9686994.42	9686994.52	9686994.63	0.2686	0.1187
Mercury	21827-06-25 00:28 G	9693382.42	9693382.52	9693382.62	0.2647	0.1811
Mercury	21829-12-23 12:28 G	9694294.93	9694295.02	9694295.10	0.2679	0.1960
Mercury	21840-06-27 00:00 G	9698133.37	9698133.50	9698133.64	0.2651	0.0353
Mercury	21842-12-26 08:52 G	9699045.74	9699045.87	9699045.99	0.2683	0.0225
Mercury	21853-06-29 23:45 G	9702884.43	9702884.49	9702884.55	0.2656	0.2343
Mercury	21855-12-29 05:45 G	9703796.65	9703796.74	9703796.84	0.2687	0.1606
Mercury	21873-06-25 06:00 G	9710184.63	9710184.75	9710184.87	0.2647	0.1226
Mercury	21875-12-24 17:31 G	9711097.13	9711097.23	9711097.33	0.2679	0.1500

Mercury	21886-06-28 05:45 G	9714935.61	9714935.74	9714935.87	0.2653	0.0658
Mercury	21888-12-26 14:09 G	9715847.97	9715848.09	9715848.21	0.2684	0.0139
Mercury	21901-12-30 11:02 G	9720598.88	9720598.96	9720599.05	0.2686	0.1952
Venus	21906-12-05 16:48 G	9722400.06	9722400.20	9722400.35	0.2685	0.0374
Mercury	21919-06-27 11:45 G	9726986.86	9726986.99	9726987.12	0.2648	0.0964
Mercury	21921-12-25 22:33 G	9727899.34	9727899.44	9727899.55	0.2679	0.1290
Mercury	21932-06-29 11:16 G	9731737.85	9731737.97	9731738.09	0.2654	0.1218
Mercury	21934-12-28 19:26 G	9732650.19	9732650.31	9732650.42	0.2685	0.0583
Mercury	21947-12-31 16:33 G	9737401.13	9737401.19	9737401.25	0.2686	0.2309
Mercury	21952-06-24 17:31 G	9739038.20	9739038.23	9739038.26	0.2646	0.2564
Mercury	21954-12-24 07:40 G	9739950.79	9739950.82	9739950.85	0.2676	0.2552
Mercury	21965-06-27 17:16 G	9743789.08	9743789.22	9743789.35	0.2650	0.0408
Mercury	21967-12-27 03:50 G	9744701.54	9744701.66	9744701.77	0.2681	0.0799
Mercury	21978-06-30 17:02 G	9748540.10	9748540.21	9748540.32	0.2654	0.1476
Mercury	21980-12-29 00:28 G	9749452.41	9749452.52	9749452.64	0.2685	0.0812
Mercury	21998-06-25 23:16 G	9755840.38	9755840.47	9755840.56	0.2646	0.2054
Mercury	22000-12-24 12:43 G	9756752.96	9756753.03	9756753.10	0.2676	0.2133

23RD MILLENNIUM CE

This is a list of transits visible from Moon in the 23rd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	22011-06-28 22:48 G		9760591.32	9760591.45	9760591.59	0.2652	0.0137	
Mercury	22013-12-27 09:07 G		9761503.76	9761503.88	9761504.00	0.2683	0.0576	

Mercury	22024-06-30 22:48 G	9765342.37	9765342.45	9765342.53	0.2655	0.2063
Mercury	22026-12-30 05:45 G	9766254.64	9766254.74	9766254.85	0.2685	0.1308
Venus	22036-06-05 16:33 G	9769700.07	9769700.19	9769700.32	0.2653	0.1659
Mercury	22044-06-26 04:48 G	9772642.59	9772642.70	9772642.81	0.2647	0.1675
Mercury	22046-12-25 18:00 G	9773555.16	9773555.25	9773555.33	0.2677	0.1858
Mercury	22057-06-29 04:33 G	9777393.55	9777393.69	9777393.82	0.2652	0.0403
Mercury	22059-12-28 14:09 G	9778305.97	9778306.09	9778306.21	0.2684	0.0127
Mercury	22070-07-02 04:33 G	9782144.64	9782144.69	9782144.75	0.2656	0.2354
Mercury	22072-12-30 11:16 G	9783056.87	9783056.97	9783057.06	0.2685	0.1556
Mercury	22090-06-27 10:19 G	9789444.81	9789444.93	9789445.05	0.2649	0.1309
Mercury	22092-12-25 23:02 G	9790357.36	9790357.46	9790357.56	0.2679	0.1502
Mercury	22103-07-01 10:19 G	9794195.80	9794195.93	9794196.06	0.2652	0.0752
Mercury	22105-12-29 19:26 G	9795108.19	9795108.31	9795108.43	0.2684	0.0152
Mercury	22119-01-01 16:33 G	9799859.11	9799859.19	9799859.27	0.2686	0.2055
Mercury	22136-06-28 15:50 G	9806247.03	9806247.16	9806247.29	0.2650	0.0804
Mercury	22138-12-28 04:04 G	9807159.56	9807159.67	9807159.78	0.2681	0.1121
Mercury	22149-07-01 15:50 G	9810998.04	9810998.16	9810998.28	0.2653	0.1208
Venus	22149-12-06 18:43 G	9811156.13	9811156.28	9811156.44	0.2672	0.0942
Mercury	22151-12-31 00:43 G	9811910.41	9811910.53	9811910.65	0.2684	0.0570
Mercury	22165-01-01 21:50 G	9816661.36	9816661.41	9816661.47	0.2686	0.2346
Mercury	22169-06-26 21:50 G	9818298.36	9818298.41	9818298.47	0.2647	0.2395
Mercury	22171-12-26 13:26 G	9819211.00	9819211.06	9819211.11	0.2675	0.2363
Mercury	22182-06-29 21:36 G	9823049.27	9823049.40	9823049.54	0.2650	0.0501
Mercury	22184-12-28 09:21 G	9823961.77	9823961.89	9823962.00	0.2681	0.0872
Mercury	22195-07-02 21:36 G	9827800.30	9827800.40	9827800.51	0.2655	0.1675
Mercury	22197-12-31 06:00 G	9828712.64	9828712.75	9828712.86	0.2684	0.0942
Mercury	22215-06-29 03:21 G	9835100.56	9835100.64	9835100.72	0.2648	0.2143
Mercury	22217-12-27 18:28 G	9836013.20	9836013.27	9836013.34	0.2677	0.2175
Mercury	22228-07-01 03:21 G	9839851.50	9839851.64	9839851.78	0.2650	0.0079
Mercury	22230-12-30 14:24 G	9840763.98	9840764.10	9840764.22	0.2681	0.0417

Mercury	22241-07-04 03:21 G	9844602.56	9844602.64	9844602.73	0.2657	0.2006
Mercury	22244-01-02 11:16 G	9845514.87	9845514.97	9845515.08	0.2685	0.1264
Mercury	22261-06-29 09:07 G	9851902.77	9851902.88	9851902.99	0.2648	0.1581
Mercury	22263-12-28 23:31 G	9852815.39	9852815.48	9852815.57	0.2678	0.1716
Mercury	22274-07-02 09:07 G	9856653.74	9856653.88	9856654.02	0.2652	0.0346
Mercury	22276-12-30 19:40 G	9857566.20	9857566.32	9857566.44	0.2682	0.0184
Venus	22279-06-08 07:12 G	9858455.64	9858455.80	9858455.96	0.2652	0.0109
Mercury	22287-07-05 09:07 G	9861404.85	9861404.88	9861404.91	0.2657	0.2549
Mercury	22290-01-02 16:33 G	9862317.10	9862317.19	9862317.28	0.2686	0.1718
Mercury	22307-07-01 14:38 G	9868704.99	9868705.11	9868705.24	0.2648	0.1278
Mercury	22309-12-30 04:33 G	9869617.59	9869617.69	9869617.79	0.2678	0.1508
Mercury	22320-07-03 14:38 G	9873455.99	9873456.11	9873456.24	0.2654	0.0924
Mercury	22323-01-02 00:57 G	9874368.42	9874368.54	9874368.66	0.2683	0.0318
Mercury	22336-01-04 21:50 G	9879119.33	9879119.41	9879119.49	0.2686	0.1966
Mercury	22353-07-01 20:24 G	9885507.22	9885507.35	9885507.49	0.2649	0.0754
Mercury	22355-12-31 09:36 G	9886419.79	9886419.90	9886420.01	0.2679	0.1062
Mercury	22366-07-04 20:24 G	9890258.23	9890258.35	9890258.47	0.2655	0.1201
Mercury	22369-01-02 06:14 G	9891170.64	9891170.76	9891170.88	0.2684	0.0547
Mercury	22382-01-05 03:07 G	9895921.59	9895921.63	9895921.68	0.2685	0.2469
Mercury	22386-06-30 02:09 G	9897558.54	9897558.59	9897558.63	0.2647	0.2491
Mercury	22388-12-28 18:57 G	9898471.24	9898471.29	9898471.34	0.2676	0.2400
Venus	22392-12-08 13:40 G	9899911.92	9899912.07	9899912.22	0.2682	0.0393
Mercury	22399-07-03 02:09 G	9902309.45	9902309.59	9902309.72	0.2651	0.0379
Mercury	22401-12-31 14:52 G	9903222.00	9903222.12	9903222.23	0.2680	0.0780
Mercury	22412-07-05 02:09 G	9907060.49	9907060.59	9907060.69	0.2655	0.1749
Mercury	22415-01-03 11:16 G	9907972.86	9907972.97	9907973.09	0.2685	0.1022
Mercury	22432-06-30 07:40 G	9914360.73	9914360.82	9914360.92	0.2647	0.1954
Mercury	22434-12-30 00:00 G	9915273.42	9915273.50	9915273.58	0.2676	0.2004
Mercury	22445-07-03 07:40 G	9919111.69	9919111.82	9919111.96	0.2652	0.0047
Mercury	22448-01-01 20:09 G	9920024.22	9920024.34	9920024.46	0.2682	0.0416

Mercury	22458-07-06 07:55 G	9923862.75	9923862.83	9923862.91	0.2655	0.2085
Mercury	22461-01-03 16:33 G	9924775.09	9924775.19	9924775.30	0.2685	0.1292
Mercury	22478-07-01 13:26 G	9931162.95	9931163.06	9931163.17	0.2648	0.1663
Mercury	22480-12-30 05:02 G	9932075.62	9932075.71	9932075.80	0.2676	0.1762
Mercury	22491-07-04 13:26 G	9935913.92	9935914.06	9935914.19	0.2653	0.0516
Mercury	22494-01-02 01:12 G	9936826.43	9936826.55	9936826.67	0.2683	0.0028
Mercury	22504-07-07 13:40 G	9940665.04	9940665.07	9940665.11	0.2657	0.2560
Mercury	22507-01-05 22:04 G	9941577.33	9941577.42	9941577.51	0.2685	0.1723
Venus	22522-06-10 19:26 G	9947212.17	9947212.31	9947212.45	0.2658	0.1029
Mercury	22524-07-02 18:57 G	9947965.17	9947965.29	9947965.42	0.2650	0.1094
Mercury	22527-01-01 10:04 G	9948877.82	9948877.92	9948878.03	0.2678	0.1316
Venus	22530-06-08 12:00 G	9950131.97	9950132.00	9950132.04	0.2653	0.2573
Mercury	22537-07-05 19:12 G	9952716.17	9952716.30	9952716.43	0.2653	0.0841
Mercury	22540-01-04 06:28 G	9953628.65	9953628.77	9953628.89	0.2683	0.0257
Mercury	22553-01-06 03:21 G	9958379.57	9958379.64	9958379.72	0.2685	0.2107
Mercury	22559-12-30 19:40 G	9960929.28	9960929.32	9960929.35	0.2673	0.2557
Mercury	22570-07-04 00:43 G	9964767.40	9964767.53	9964767.66	0.2650	0.0843
Mercury	22573-01-01 15:21 G	9965680.03	9965680.14	9965680.24	0.2680	0.1121
Mercury	22583-07-07 00:57 G	9969518.43	9969518.54	9969518.66	0.2654	0.1412
Mercury	22586-01-04 11:31 G	9970430.87	9970430.98	9970431.10	0.2683	0.0701
Mercury	22599-01-07 08:38 G	9975181.81	9975181.86	9975181.91	0.2685	0.2424
Mercury	22603-07-03 06:14 G	9976818.71	9976818.76	9976818.82	0.2648	0.2439
Mercury	22606-01-01 00:28 G	9977731.47	9977731.52	9977731.58	0.2675	0.2350
Mercury	22616-07-05 06:28 G	9981569.63	9981569.77	9981569.90	0.2651	0.0257
Mercury	22619-01-03 20:24 G	9982482.23	9982482.35	9982482.46	0.2680	0.0638
Mercury	22629-07-08 06:43 G	9986320.68	9986320.78	9986320.89	0.2656	0.1689
Mercury	22632-01-06 17:02 G	9987233.10	9987233.21	9987233.32	0.2684	0.0958
Venus	22635-12-11 22:48 G	9988668.29	9988668.45	9988668.61	0.2674	0.0449
Mercury	22649-07-03 12:00 G	9993620.91	9993621.00	9993621.09	0.2649	0.1990
Mercury	22652-01-02 05:31 G	9994533.65	9994533.73	9994533.81	0.2677	0.1962

Mercury	22662-07-06 12:14 G	9998371.87	9998372.01	9998372.14	0.2651	0.0083
Mercury	22665-01-04 01:26 G	9999284.44	9999284.56	9999284.68	0.2680	0.0435
Mercury	22675-07-09 12:28 G	10003122.95	10003123.02	10003123.09	0.2657	0.2279
Mercury	22678-01-06 22:19 G	10004035.33	10004035.43	10004035.53	0.2685	0.1463
Mercury	22695-07-04 17:31 G	10010423.12	10010423.23	10010423.35	0.2649	0.1548
Mercury	22698-01-02 10:33 G	10011335.85	10011335.94	10011336.04	0.2678	0.1658
Mercury	22708-07-07 18:00 G	10015174.11	10015174.25	10015174.38	0.2653	0.0578
Mercury	22711-01-06 06:43 G	10016086.66	10016086.78	10016086.90	0.2681	0.0048
Mercury	22721-07-10 18:14 G	10019925.22	10019925.26	10019925.29	0.2657	0.2543
Mercury	22724-01-09 03:36 G	10020837.55	10020837.65	10020837.74	0.2685	0.1687
Mercury	22741-07-05 23:16 G	10027225.35	10027225.47	10027225.60	0.2649	0.1167
Mercury	22744-01-04 15:36 G	10028138.05	10028138.15	10028138.26	0.2678	0.1347
Mercury	22754-07-08 23:31 G	10031976.36	10031976.48	10031976.61	0.2655	0.0964
Mercury	22757-01-06 12:00 G	10032888.88	10032889.00	10032889.12	0.2683	0.0337
Venus	22765-06-12 12:28 G	10035967.85	10035968.02	10035968.18	0.2650	0.0537
Mercury	22770-01-09 08:38 G	10037639.79	10037639.86	10037639.93	0.2685	0.2172
Mercury	22777-01-02 01:12 G	10040189.53	10040189.55	10040189.57	0.2675	0.2626
Mercury	22787-07-07 05:02 G	10044027.58	10044027.71	10044027.85	0.2650	0.0643
Mercury	22790-01-04 20:52 G	10044940.26	10044940.37	10044940.48	0.2678	0.0959
Mercury	22800-07-09 05:16 G	10048778.60	10048778.72	10048778.84	0.2656	0.1365
Mercury	22803-01-07 17:16 G	10049691.11	10049691.22	10049691.34	0.2684	0.0711
Mercury	22816-01-10 14:09 G	10054442.04	10054442.09	10054442.13	0.2684	0.2453
Mercury	22820-07-04 10:33 G	10056078.87	10056078.94	10056079.01	0.2647	0.2283
Mercury	22823-01-03 06:14 G	10056991.69	10056991.76	10056991.82	0.2675	0.2178
Mercury	22833-07-07 10:48 G	10060829.81	10060829.95	10060830.09	0.2652	0.0353
Mercury	22836-01-06 01:55 G	10061742.47	10061742.58	10061742.70	0.2679	0.0699
Mercury	22846-07-10 11:02 G	10065580.86	10065580.96	10065581.06	0.2656	0.1850
Mercury	22849-01-07 22:19 G	10066493.33	10066493.43	10066493.54	0.2684	0.1090
Mercury	22866-07-05 16:19 G	10072881.09	10072881.18	10072881.27	0.2648	0.2013
Mercury	22869-01-03 11:16 G	10073793.89	10073793.97	10073794.05	0.2675	0.1996

Venus	22878-12-12 12:28 G	10077423.87	10077424.02	10077424.17	0.2676	0.0556
Mercury	22879-07-08 16:19 G	10077632.05	10077632.18	10077632.32	0.2653	0.0256
Mercury	22882-01-06 07:12 G	10078544.68	10078544.80	10078544.92	0.2681	0.0230
Mercury	22892-07-10 17:02 G	10082383.13	10082383.21	10082383.28	0.2656	0.2209
Mercury	22895-01-09 03:36 G	10083295.55	10083295.65	10083295.75	0.2684	0.1387
Mercury	22912-07-06 21:50 G	10089683.30	10089683.41	10089683.53	0.2649	0.1451
Mercury	22915-01-05 16:19 G	10090596.08	10090596.18	10090596.28	0.2676	0.1525
Mercury	22925-07-09 22:04 G	10094434.29	10094434.42	10094434.56	0.2654	0.0490
Mercury	22928-01-08 12:14 G	10095346.90	10095347.01	10095347.13	0.2682	0.0105
Mercury	22941-01-10 08:52 G	10100097.79	10100097.87	10100097.96	0.2684	0.1844
Mercury	22958-07-08 03:36 G	10106485.52	10106485.65	10106485.77	0.2651	0.1130
Mercury	22961-01-05 21:21 G	10107398.29	10107398.39	10107398.50	0.2678	0.1309
Mercury	22971-07-11 03:50 G	10111236.54	10111236.66	10111236.79	0.2654	0.1101
Mercury	22974-01-08 17:31 G	10112149.11	10112149.23	10112149.35	0.2682	0.0466
Mercury	22987-01-11 14:24 G	10116900.02	10116900.10	10116900.17	0.2684	0.2107
Mercury	22994-01-04 06:57 G	10119449.75	10119449.79	10119449.83	0.2673	0.2488

24TH MILLENNIUM CE

This is a list of transits visible from Moon in the 24th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	23004-07-09 09:07 G		10123287.75	10123287.88	10123288.02	0.2651	0.0665	
Mercury	23007-01-08 02:38 G		10124200.49	10124200.61	10124200.72	0.2679	0.0904	
Venus	23008-06-14 19:40 G		10124724.18	10124724.32	10124724.47	0.2662	0.0458	

Venus	23016-06-12 14:38 G	10127644.04	10127644.11	10127644.18	0.2659	0.2388
Mercury	23017-07-12 09:50 G	10128038.79	10128038.91	10128039.02	0.2655	0.1391
Mercury	23020-01-10 22:48 G	10128951.33	10128951.45	10128951.56	0.2682	0.0690
Mercury	23033-01-12 19:40 G	10133702.29	10133702.32	10133702.34	0.2685	0.2614
Mercury	23037-07-07 14:38 G	10135339.05	10135339.11	10135339.17	0.2649	0.2393
Mercury	23040-01-06 12:00 G	10136251.93	10136252.00	10136252.06	0.2674	0.2189
Mercury	23050-07-10 14:52 G	10140089.98	10140090.12	10140090.26	0.2652	0.0238
Mercury	23053-01-08 07:40 G	10141002.70	10141002.82	10141002.93	0.2680	0.0604
Mercury	23063-07-13 15:36 G	10144841.06	10144841.15	10144841.24	0.2657	0.1934
Mercury	23066-01-11 04:04 G	10145753.56	10145753.67	10145753.77	0.2683	0.1164
Mercury	23083-07-08 20:09 G	10152141.24	10152141.34	10152141.44	0.2650	0.1850
Mercury	23086-01-06 17:02 G	10153054.12	10153054.21	10153054.29	0.2676	0.1808
Mercury	23096-07-10 20:38 G	10156892.23	10156892.36	10156892.50	0.2652	0.0197
Mercury	23099-01-09 12:43 G	10157804.91	10157805.03	10157805.15	0.2680	0.0258
Mercury	23109-07-14 21:21 G	10161643.33	10161643.39	10161643.46	0.2658	0.2323
Mercury	23112-01-13 09:21 G	10162555.79	10162555.89	10162555.99	0.2684	0.1469
Venus	23121-12-16 00:00 G	10166180.34	10166180.50	10166180.65	0.2678	0.0206
Mercury	23129-07-10 01:55 G	10168943.47	10168943.58	10168943.70	0.2650	0.1579
Mercury	23132-01-08 22:04 G	10169856.32	10169856.42	10169856.51	0.2677	0.1602
Mercury	23142-07-13 02:38 G	10173694.47	10173694.61	10173694.74	0.2654	0.0702
Mercury	23145-01-10 18:00 G	10174607.13	10174607.25	10174607.37	0.2680	0.0146
Mercury	23158-01-13 14:38 G	10179358.02	10179358.11	10179358.19	0.2684	0.1850
Mercury	23175-07-11 07:40 G	10185745.69	10185745.82	10185745.95	0.2650	0.0960
Mercury	23178-01-09 02:52 G	10186658.52	10186658.62	10186658.73	0.2677	0.1142
Mercury	23188-07-13 08:24 G	10190496.72	10190496.85	10190496.98	0.2656	0.1002
Mercury	23191-01-11 23:02 G	10191409.35	10191409.46	10191409.58	0.2682	0.0421
Mercury	23204-01-14 19:40 G	10196160.26	10196160.32	10196160.39	0.2684	0.2213
Mercury	23211-01-07 12:28 G	10198709.97	10198710.02	10198710.07	0.2674	0.2389
Mercury	23221-07-11 13:40 G	10202547.93	10202548.07	10202548.20	0.2651	0.0691
Mercury	23224-01-10 08:09 G	10203460.73	10203460.84	10203460.95	0.2677	0.0948

Mercury	23234-07-14 14:09 G	10207298.98	10207299.09	10207299.20	0.2657	0.1601
Mercury	23237-01-12 04:19 G	10208211.57	10208211.68	10208211.79	0.2683	0.0879
Mercury	23250-01-15 00:57 G	10212962.51	10212962.54	10212962.58	0.2684	0.2536
Venus	23251-06-16 19:40 G	10213480.16	10213480.32	10213480.49	0.2650	0.0639
Mercury	23254-07-09 18:43 G	10214599.22	10214599.28	10214599.34	0.2648	0.2345
Mercury	23257-01-07 17:31 G	10215512.16	10215512.23	10215512.30	0.2674	0.2158
Mercury	23267-07-12 19:12 G	10219350.16	10219350.30	10219350.44	0.2653	0.0123
Mercury	23270-01-10 13:12 G	10220262.93	10220263.05	10220263.17	0.2678	0.0471
Mercury	23280-07-14 19:55 G	10224101.23	10224101.33	10224101.42	0.2657	0.1854
Mercury	23283-01-13 09:36 G	10225013.79	10225013.90	10225014.01	0.2683	0.1088
Mercury	23300-07-11 00:28 G	10231401.42	10231401.52	10231401.62	0.2649	0.1867
Mercury	23303-01-09 22:33 G	10232314.35	10232314.44	10232314.53	0.2674	0.1769
Mercury	23313-07-14 00:57 G	10236152.40	10236152.54	10236152.68	0.2654	0.0209
Mercury	23316-01-12 18:28 G	10237065.15	10237065.27	10237065.39	0.2680	0.0235
Mercury	23326-07-17 01:40 G	10240903.52	10240903.57	10240903.62	0.2657	0.2463
Mercury	23329-01-14 14:38 G	10241816.02	10241816.11	10241816.21	0.2683	0.1580
Mercury	23346-07-12 06:14 G	10248203.64	10248203.76	10248203.88	0.2650	0.1420
Mercury	23349-01-10 03:36 G	10249116.56	10249116.65	10249116.75	0.2675	0.1475
Mercury	23359-07-15 06:43 G	10252954.64	10252954.78	10252954.91	0.2655	0.0700
Mercury	23362-01-12 23:31 G	10253867.36	10253867.48	10253867.60	0.2681	0.0194
Venus	23364-12-16 14:24 G	10254935.95	10254936.10	10254936.26	0.2670	0.0848
Mercury	23375-01-15 20:09 G	10258618.25	10258618.34	10258618.42	0.2683	0.1829
Mercury	23382-01-08 13:12 G	10261168.04	10261168.05	10261168.07	0.2672	0.2629
Mercury	23392-07-12 12:00 G	10265005.87	10265006.00	10265006.12	0.2652	0.1079
Mercury	23395-01-11 08:38 G	10265918.76	10265918.86	10265918.97	0.2677	0.1164
Mercury	23405-07-16 12:28 G	10269756.90	10269757.02	10269757.15	0.2655	0.1110
Mercury	23408-01-15 04:48 G	10270669.58	10270669.70	10270669.81	0.2681	0.0485
Mercury	23421-01-17 01:26 G	10275420.50	10275420.56	10275420.62	0.2684	0.2304
Mercury	23428-01-10 18:28 G	10277970.22	10277970.27	10277970.31	0.2672	0.2423
Mercury	23438-07-14 17:31 G	10281808.09	10281808.23	10281808.37	0.2653	0.0514

Mercury	23441-01-12 13:40 G	10282720.96	10282721.07	10282721.19	0.2678	0.0773
Mercury	23451-07-17 18:28 G	10286559.15	10286559.27	10286559.38	0.2656	0.1546
Mercury	23454-01-15 09:50 G	10287471.80	10287471.91	10287472.02	0.2681	0.0848
Mercury	23467-01-18 06:43 G	10292222.75	10292222.78	10292222.80	0.2684	0.2600
Mercury	23471-07-12 22:48 G	10293859.37	10293859.45	10293859.52	0.2650	0.2213
Mercury	23474-01-10 23:16 G	10294772.39	10294772.47	10294772.55	0.2673	0.1979
Mercury	23484-07-14 23:16 G	10298610.34	10298610.47	10298610.61	0.2653	0.0248
Mercury	23487-01-13 18:57 G	10299523.17	10299523.29	10299523.40	0.2679	0.0545
Venus	23494-06-18 18:28 G	10302236.12	10302236.27	10302236.42	0.2663	0.0232
Mercury	23497-07-18 00:14 G	10303361.43	10303361.51	10303361.60	0.2658	0.2071
Mercury	23500-01-16 15:07 G	10304274.03	10304274.13	10304274.24	0.2682	0.1236
Mercury	23517-07-14 04:19 G	10310661.59	10310661.68	10310661.78	0.2651	0.1932
Mercury	23520-01-13 04:19 G	10311574.59	10311574.68	10311574.77	0.2675	0.1797
Mercury	23530-07-17 05:02 G	10315412.58	10315412.71	10315412.85	0.2653	0.0384
Mercury	23533-01-15 00:00 G	10316325.38	10316325.50	10316325.62	0.2679	0.0090
Mercury	23543-07-20 06:00 G	10320163.70	10320163.75	10320163.81	0.2659	0.2377
Mercury	23546-01-17 20:24 G	10321076.25	10321076.35	10321076.45	0.2683	0.1530
Mercury	23563-07-15 10:04 G	10327463.80	10327463.92	10327464.04	0.2651	0.1377
Mercury	23566-01-13 09:21 G	10328376.79	10328376.89	10328376.99	0.2676	0.1366
Mercury	23576-07-17 11:02 G	10332214.83	10332214.96	10332215.09	0.2655	0.0659
Mercury	23579-01-16 05:02 G	10333127.60	10333127.71	10333127.83	0.2680	0.0169
Mercury	23592-01-19 01:40 G	10337878.49	10337878.57	10337878.64	0.2684	0.1995
Mercury	23599-01-11 19:12 G	10340428.27	10340428.30	10340428.33	0.2671	0.2589
Venus	23599-12-22 03:50 G	10340772.63	10340772.66	10340772.69	0.2681	0.2623
Venus	23607-12-19 23:02 G	10343692.31	10343692.46	10343692.61	0.2680	0.0510
Mercury	23609-07-15 15:50 G	10344266.03	10344266.16	10344266.29	0.2651	0.1030
Mercury	23612-01-14 14:24 G	10345178.99	10345179.10	10345179.21	0.2676	0.1140
Mercury	23622-07-18 16:48 G	10349017.08	10349017.20	10349017.32	0.2657	0.1243
Mercury	23625-01-16 10:19 G	10349929.82	10349929.93	10349930.05	0.2681	0.0618
Mercury	23638-01-19 06:43 G	10354680.72	10354680.78	10354680.85	0.2683	0.2212

Mercury	23645-01-12 00:00 G	10357230.44	10357230.50	10357230.56	0.2673	0.2287
Mercury	23655-07-16 21:50 G	10361068.27	10361068.41	10361068.54	0.2652	0.0538
Mercury	23658-01-14 19:26 G	10361981.20	10361981.31	10361981.43	0.2676	0.0722
Mercury	23668-07-18 22:33 G	10365819.33	10365819.44	10365819.55	0.2658	0.1560
Mercury	23671-01-17 15:36 G	10366732.04	10366732.15	10366732.26	0.2682	0.0862
Mercury	23688-07-14 02:38 G	10373119.55	10373119.61	10373119.68	0.2650	0.2342
Mercury	23691-01-13 05:02 G	10374032.63	10374032.71	10374032.78	0.2673	0.2035
Mercury	23701-07-18 03:21 G	10377870.50	10377870.64	10377870.78	0.2654	0.0120
Mercury	23704-01-17 00:28 G	10378783.41	10378783.52	10378783.64	0.2678	0.0443
Mercury	23714-07-21 04:19 G	10382621.60	10382621.68	10382621.77	0.2658	0.2082
Mercury	23717-01-18 20:38 G	10383534.26	10383534.36	10383534.47	0.2683	0.1300
Mercury	23734-07-16 08:38 G	10389921.75	10389921.86	10389921.96	0.2650	0.1748
Mercury	23737-01-14 10:04 G	10390834.82	10390834.92	10390835.01	0.2673	0.1630
Venus	23737-06-21 02:38 G	10390992.45	10390992.61	10390992.77	0.2654	0.0430
Mercury	23747-07-19 09:21 G	10394672.75	10394672.89	10394673.03	0.2656	0.0278
Mercury	23750-01-17 05:45 G	10395585.62	10395585.74	10395585.86	0.2680	0.0104
Mercury	23760-07-21 10:19 G	10399423.88	10399423.93	10399423.98	0.2658	0.2483
Mercury	23763-01-20 01:55 G	10400336.48	10400336.58	10400336.67	0.2682	0.1579
Mercury	23780-07-16 14:24 G	10406723.98	10406724.10	10406724.21	0.2651	0.1472
Mercury	23783-01-15 15:07 G	10407637.03	10407637.13	10407637.23	0.2674	0.1408
Mercury	23793-07-19 15:07 G	10411475.00	10411475.13	10411475.26	0.2656	0.0839
Mercury	23796-01-18 10:48 G	10412387.83	10412387.95	10412388.07	0.2681	0.0299
Mercury	23809-01-21 07:12 G	10417138.72	10417138.80	10417138.88	0.2682	0.1969
Mercury	23816-01-15 00:57 G	10419688.52	10419688.54	10419688.56	0.2671	0.2619
Mercury	23826-07-18 19:55 G	10423526.20	10423526.33	10423526.46	0.2653	0.0884
Mercury	23829-01-16 20:09 G	10424439.23	10424439.34	10424439.45	0.2676	0.0960
Mercury	23839-07-21 20:52 G	10428277.25	10428277.37	10428277.50	0.2656	0.1141
Mercury	23842-01-19 15:50 G	10429190.05	10429190.16	10429190.28	0.2681	0.0551
Venus	23850-12-21 18:28 G	10432448.13	10432448.27	10432448.42	0.2667	0.1333
Mercury	23855-01-22 12:28 G	10433940.97	10433941.02	10433941.07	0.2683	0.2368

Mercury	23859-07-17 00:57 G	10435577.53	10435577.54	10435577.55	0.2649	0.2633
Mercury	23862-01-15 05:45 G	10436490.68	10436490.74	10436490.81	0.2671	0.2183
Mercury	23872-07-19 01:40 G	10440328.43	10440328.57	10440328.71	0.2654	0.0602
Mercury	23875-01-18 01:12 G	10441241.44	10441241.55	10441241.66	0.2678	0.0768
Mercury	23885-07-22 02:52 G	10445079.51	10445079.62	10445079.72	0.2657	0.1746
Mercury	23888-01-20 21:07 G	10445992.27	10445992.38	10445992.49	0.2681	0.1002
Mercury	23901-01-23 17:45 G	10450743.23	10450743.24	10450743.25	0.2683	0.2656
Mercury	23905-07-18 06:43 G	10452379.70	10452379.78	10452379.85	0.2651	0.2268
Mercury	23908-01-17 10:48 G	10453292.87	10453292.95	10453293.03	0.2672	0.1960
Mercury	23918-07-21 07:26 G	10457130.67	10457130.81	10457130.96	0.2654	0.0083
Mercury	23921-01-19 06:14 G	10458043.64	10458043.76	10458043.88	0.2678	0.0312
Mercury	23931-07-24 08:52 G	10461881.78	10461881.87	10461881.95	0.2659	0.2044
Mercury	23934-01-22 02:24 G	10462794.49	10462794.60	10462794.70	0.2681	0.1240
Mercury	23951-07-19 12:14 G	10469181.91	10469182.01	10469182.11	0.2652	0.1854
Mercury	23954-01-17 15:50 G	10470095.07	10470095.16	10470095.25	0.2674	0.1598
Mercury	23964-07-21 13:26 G	10473932.92	10473933.06	10473933.20	0.2654	0.0321
Mercury	23967-01-20 11:16 G	10474845.85	10474845.97	10474846.09	0.2678	0.0102
Mercury	23977-07-24 14:38 G	10478684.10	10478684.11	10478684.12	0.2660	0.2639
Mercury	23980-01-23 07:40 G	10479596.73	10479596.82	10479596.91	0.2682	0.1732
Venus	23980-06-22 18:00 G	10479748.10	10479748.25	10479748.41	0.2660	0.0088
Mercury	23997-07-19 18:00 G	10485984.13	10485984.25	10485984.37	0.2652	0.1346
Mercury	24000-01-18 20:52 G	10486897.26	10486897.37	10486897.47	0.2675	0.1286

25TH MILLENNIUM CE

This is a list of transits visible from Moon in the 25th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	24010-07-22 19:12	G	10490735.17	10490735.30	10490735.44	0.2656	0.0834	
Mercury	24013-01-20 16:33	G	10491648.07	10491648.19	10491648.30	0.2679	0.0352	
Mercury	24026-01-23 12:57	G	10496398.96	10496399.04	10496399.12	0.2683	0.1968	
Mercury	24033-01-16 06:43	G	10498948.73	10498948.78	10498948.83	0.2671	0.2426	
Mercury	24043-07-21 00:00	G	10502786.37	10502786.50	10502786.63	0.2652	0.0985	
Mercury	24046-01-19 01:55	G	10503699.47	10503699.58	10503699.68	0.2675	0.1012	
Mercury	24056-07-23 01:12	G	10507537.42	10507537.55	10507537.67	0.2658	0.1290	
Mercury	24059-01-21 21:36	G	10508450.29	10508450.40	10508450.52	0.2680	0.0658	
Mercury	24072-01-24 18:00	G	10513201.20	10513201.25	10513201.30	0.2683	0.2416	
Mercury	24079-01-17 11:31	G	10515750.92	10515750.98	10515751.05	0.2672	0.2247	
Venus	24085-12-25 02:09	G	10518284.49	10518284.59	10518284.69	0.2677	0.2015	
Mercury	24089-07-21 05:45	G	10519588.61	10519588.74	10519588.89	0.2653	0.0412	
Mercury	24092-01-20 06:57	G	10520501.67	10520501.79	10520501.90	0.2676	0.0617	
Venus	24093-12-22 20:52	G	10521204.23	10521204.37	10521204.52	0.2679	0.0884	
Mercury	24102-07-25 06:57	G	10524339.68	10524339.79	10524339.90	0.2659	0.1668	
Mercury	24105-01-23 02:52	G	10525252.51	10525252.62	10525252.73	0.2681	0.0991	
Mercury	24122-07-20 10:33	G	10531639.86	10531639.94	10531640.02	0.2651	0.2160	
Mercury	24125-01-18 16:33	G	10532553.10	10532553.19	10532553.27	0.2673	0.1804	
Mercury	24135-07-23 11:45	G	10536390.84	10536390.99	10536391.13	0.2655	0.0151	
Mercury	24138-01-21 12:00	G	10537303.88	10537304.00	10537304.12	0.2677	0.0367	
Mercury	24148-07-25 12:43	G	10541141.96	10541142.03	10541142.11	0.2659	0.2211	
Mercury	24151-01-24 07:55	G	10542054.73	10542054.83	10542054.93	0.2682	0.1383	
Mercury	24168-07-20 16:19	G	10548442.08	10548442.18	10548442.28	0.2651	0.1862	
Mercury	24171-01-19 21:36	G	10549355.30	10549355.40	10549355.49	0.2673	0.1627	
Mercury	24181-07-23 17:31	G	10553193.09	10553193.23	10553193.36	0.2657	0.0499	
Mercury	24184-01-22 17:02	G	10554106.10	10554106.21	10554106.33	0.2679	0.0121	
Mercury	24194-07-26 18:43	G	10557944.24	10557944.28	10557944.32	0.2659	0.2537	

Mercury	24197-01-24 13:12 G	10558856.96	10558857.05	10558857.14	0.2681	0.1650
Mercury	24214-07-22 22:04 G	10565244.30	10565244.42	10565244.55	0.2652	0.1300
Mercury	24217-01-21 02:38 G	10566157.50	10566157.61	10566157.71	0.2673	0.1172
Venus	24223-06-26 06:28 G	10568504.61	10568504.77	10568504.92	0.2660	0.0454
Mercury	24227-07-25 23:16 G	10569995.33	10569995.47	10569995.60	0.2657	0.0760
Mercury	24230-01-23 22:19 G	10570908.31	10570908.43	10570908.54	0.2680	0.0300
Mercury	24243-01-26 18:14 G	10575659.19	10575659.26	10575659.34	0.2682	0.2113
Mercury	24250-01-19 12:28 G	10578208.97	10578209.02	10578209.07	0.2670	0.2424
Mercury	24260-07-23 03:50 G	10582046.53	10582046.66	10582046.80	0.2654	0.0922
Mercury	24263-01-22 07:40 G	10582959.71	10582959.82	10582959.93	0.2675	0.0945
Mercury	24273-07-26 05:02 G	10586797.60	10586797.71	10586797.83	0.2657	0.1375
Mercury	24276-01-25 03:21 G	10587710.53	10587710.64	10587710.75	0.2680	0.0767
Mercury	24289-01-26 23:45 G	10592461.43	10592461.49	10592461.54	0.2682	0.2361
Mercury	24293-07-21 08:38 G	10594097.84	10594097.86	10594097.88	0.2651	0.2611
Mercury	24296-01-20 17:31 G	10595011.16	10595011.23	10595011.30	0.2670	0.2094
Mercury	24306-07-25 09:36 G	10598848.76	10598848.90	10598849.04	0.2655	0.0491
Mercury	24309-01-23 12:43 G	10599761.91	10599762.03	10599762.14	0.2677	0.0571
Mercury	24319-07-28 11:02 G	10603599.86	10603599.96	10603600.07	0.2658	0.1706
Mercury	24322-01-26 08:24 G	10604512.74	10604512.85	10604512.96	0.2680	0.0990
Venus	24336-12-26 00:28 G	10609960.38	10609960.52	10609960.66	0.2666	0.1344
Mercury	24339-07-23 14:24 G	10610900.03	10610900.10	10610900.17	0.2652	0.2294
Mercury	24342-01-21 22:33 G	10611813.35	10611813.44	10611813.52	0.2671	0.1830
Mercury	24352-07-25 15:36 G	10615651.00	10615651.15	10615651.29	0.2655	0.0069
Mercury	24355-01-24 17:45 G	10616564.12	10616564.24	10616564.36	0.2677	0.0254
Mercury	24365-07-28 17:02 G	10620402.14	10620402.21	10620402.29	0.2660	0.2233
Mercury	24368-01-27 13:40 G	10621314.97	10621315.07	10621315.17	0.2680	0.1436
Mercury	24385-07-23 20:09 G	10627702.23	10627702.34	10627702.45	0.2653	0.1702
Mercury	24388-01-23 03:21 G	10628615.54	10628615.64	10628615.74	0.2673	0.1435
Mercury	24398-07-26 21:36 G	10632453.26	10632453.40	10632453.54	0.2655	0.0401
Mercury	24401-01-24 22:48 G	10633366.33	10633366.45	10633366.57	0.2677	0.0052

Mercury	24414-01-27 18:57 G	10638117.20	10638117.29	10638117.38	0.2682	0.1756
Mercury	24421-01-20 13:26 G	10640667.04	10640667.06	10640667.09	0.2668	0.2583
Mercury	24431-07-25 01:55 G	10644504.46	10644504.58	10644504.70	0.2653	0.1437
Mercury	24434-01-23 08:24 G	10645417.75	10645417.85	10645417.95	0.2674	0.1248
Mercury	24444-07-27 03:21 G	10649255.51	10649255.64	10649255.77	0.2657	0.0974
Mercury	24447-01-26 03:50 G	10650168.55	10650168.66	10650168.78	0.2678	0.0446
Mercury	24460-01-29 00:14 G	10654919.43	10654919.51	10654919.58	0.2682	0.2100
Venus	24466-06-26 20:09 G	10657260.19	10657260.34	10657260.50	0.2658	0.0673
Mercury	24467-01-21 18:28 G	10657469.22	10657469.27	10657469.32	0.2670	0.2402
Mercury	24477-07-25 07:55 G	10661306.69	10661306.83	10661306.96	0.2653	0.0799
Mercury	24480-01-24 13:26 G	10662219.94	10662220.06	10662220.17	0.2675	0.0793
Mercury	24490-07-28 09:21 G	10666057.77	10666057.89	10666058.01	0.2659	0.1264
Mercury	24493-01-26 09:07 G	10666970.77	10666970.88	10666970.99	0.2679	0.0704
Mercury	24506-01-30 05:16 G	10671721.68	10671721.72	10671721.76	0.2682	0.2480
Mercury	24513-01-22 23:16 G	10674271.40	10674271.47	10674271.55	0.2671	0.2011
Mercury	24523-07-27 13:40 G	10678108.93	10678109.07	10678109.21	0.2654	0.0505
Mercury	24526-01-25 18:28 G	10679022.15	10679022.27	10679022.38	0.2675	0.0604
Mercury	24536-07-29 15:07 G	10682860.04	10682860.13	10682860.23	0.2660	0.1895
Mercury	24539-01-28 14:09 G	10683772.99	10683773.09	10683773.20	0.2681	0.1181
Mercury	24556-07-24 18:00 G	10690160.18	10690160.25	10690160.33	0.2652	0.2225
Mercury	24559-01-24 04:19 G	10691073.59	10691073.68	10691073.76	0.2672	0.1769
Mercury	24569-07-27 19:40 G	10694911.17	10694911.32	10694911.46	0.2656	0.0105
Venus	24571-12-30 02:24 G	10695796.50	10695796.60	10695796.71	0.2671	0.2003
Mercury	24572-01-26 23:31 G	10695824.36	10695824.48	10695824.60	0.2676	0.0139
Venus	24579-12-27 19:12 G	10698716.19	10698716.30	10698716.41	0.2675	0.1769
Mercury	24582-07-30 21:07 G	10699662.30	10699662.38	10699662.46	0.2660	0.2158
Mercury	24585-01-28 19:26 G	10700575.21	10700575.31	10700575.41	0.2681	0.1379
Mercury	24602-07-27 00:00 G	10706962.40	10706962.50	10706962.61	0.2652	0.1781
Mercury	24605-01-25 09:07 G	10707875.78	10707875.88	10707875.98	0.2672	0.1424
Mercury	24615-07-30 01:26 G	10711713.42	10711713.56	10711713.70	0.2658	0.0454

Mercury	24618-01-28 04:33 G	10712626.58	10712626.69	10712626.81	0.2678	0.0124
Mercury	24631-01-31 00:28 G	10717377.44	10717377.52	10717377.61	0.2681	0.1860
Mercury	24638-01-23 19:26 G	10719927.29	10719927.31	10719927.32	0.2669	0.2643
Mercury	24648-07-27 06:00 G	10723764.62	10723764.75	10723764.87	0.2653	0.1260
Mercury	24651-01-26 14:09 G	10724677.99	10724678.09	10724678.20	0.2672	0.1106
Mercury	24661-07-30 07:12 G	10728515.67	10728515.80	10728515.93	0.2658	0.0916
Mercury	24664-01-29 09:36 G	10729428.79	10729428.90	10729429.02	0.2679	0.0502
Mercury	24677-01-31 05:45 G	10734179.67	10734179.74	10734179.81	0.2681	0.2102
Mercury	24684-01-25 00:14 G	10736729.45	10736729.51	10736729.57	0.2669	0.2233
Mercury	24694-07-28 11:45 G	10740566.85	10740566.99	10740567.12	0.2655	0.0944
Mercury	24697-01-26 19:12 G	10741480.19	10741480.30	10741480.41	0.2674	0.0823
Mercury	24707-08-01 13:12 G	10745317.93	10745318.05	10745318.17	0.2658	0.1400
Venus	24709-06-30 07:26 G	10746016.66	10746016.81	10746016.96	0.2665	0.0484
Mercury	24710-01-30 14:52 G	10746231.01	10746231.12	10746231.23	0.2679	0.0803
Mercury	24723-02-02 11:02 G	10750981.93	10750981.96	10750982.00	0.2681	0.2546
Mercury	24730-01-26 05:16 G	10753531.64	10753531.72	10753531.79	0.2669	0.2053
Mercury	24740-07-29 17:31 G	10757369.09	10757369.23	10757369.37	0.2656	0.0327
Mercury	24743-01-29 00:14 G	10758282.40	10758282.51	10758282.63	0.2676	0.0413
Mercury	24753-08-01 19:12 G	10762120.20	10762120.30	10762120.40	0.2659	0.1801
Mercury	24756-01-31 19:55 G	10763033.22	10763033.33	10763033.44	0.2679	0.1134
Mercury	24773-07-27 21:50 G	10769420.33	10769420.41	10769420.50	0.2653	0.2139
Mercury	24776-01-27 10:04 G	10770333.83	10770333.92	10770334.01	0.2670	0.1609
Mercury	24786-07-30 23:31 G	10774171.33	10774171.48	10774171.62	0.2656	0.0074
Mercury	24789-01-29 05:16 G	10775084.60	10775084.72	10775084.84	0.2677	0.0215
Mercury	24799-08-03 01:12 G	10778922.50	10778922.55	10778922.61	0.2661	0.2391
Mercury	24802-02-01 01:12 G	10779835.45	10779835.55	10779835.64	0.2680	0.1535
Venus	24815-01-01 13:40 G	10784553.00	10784553.07	10784553.14	0.2674	0.2352
Mercury	24819-07-29 03:50 G	10786222.55	10786222.66	10786222.76	0.2654	0.1814
Mercury	24822-01-27 15:07 G	10787136.03	10787136.13	10787136.23	0.2672	0.1419
Venus	24822-12-30 05:31 G	10787472.58	10787472.73	10787472.88	0.2669	0.0879

Mercury	24832-07-31 05:16 G	10790973.58	10790973.72	10790973.86	0.2657	0.0595
Mercury	24835-01-30 10:19 G	10791886.81	10791886.93	10791887.05	0.2677	0.0250
Mercury	24848-02-02 06:28 G	10796637.68	10796637.77	10796637.85	0.2681	0.1802
Mercury	24855-01-26 01:12 G	10799187.52	10799187.55	10799187.59	0.2668	0.2537
Mercury	24865-07-29 09:36 G	10803024.77	10803024.90	10803025.02	0.2654	0.1293
Mercury	24868-01-28 19:55 G	10803938.23	10803938.33	10803938.44	0.2674	0.1015
Mercury	24878-08-01 11:16 G	10807775.84	10807775.97	10807776.11	0.2658	0.0896
Mercury	24881-01-30 15:36 G	10808689.03	10808689.15	10808689.26	0.2677	0.0464
Mercury	24894-02-02 11:31 G	10813439.92	10813439.98	10813440.04	0.2681	0.2272
Mercury	24901-01-27 06:14 G	10815989.69	10815989.76	10815989.82	0.2669	0.2218
Mercury	24911-07-31 15:36 G	10819827.01	10819827.15	10819827.28	0.2654	0.0864
Mercury	24914-01-30 00:57 G	10820740.43	10820740.54	10820740.66	0.2674	0.0775
Mercury	24924-08-02 17:16 G	10824578.10	10824578.22	10824578.34	0.2660	0.1474
Mercury	24927-02-01 20:38 G	10825491.25	10825491.36	10825491.47	0.2678	0.0926
Mercury	24940-02-04 16:33 G	10830242.15	10830242.19	10830242.24	0.2681	0.2480
Mercury	24944-07-28 19:40 G	10831878.29	10831878.32	10831878.34	0.2653	0.2602
Mercury	24947-01-28 11:02 G	10832791.88	10832791.96	10832792.04	0.2670	0.1895
Venus	24952-07-01 00:43 G	10834772.38	10834772.53	10834772.69	0.2656	0.1018
Mercury	24957-07-31 21:21 G	10836629.25	10836629.39	10836629.54	0.2656	0.0403
Mercury	24960-01-31 06:00 G	10837542.64	10837542.75	10837542.87	0.2674	0.0401
Mercury	24970-08-03 23:16 G	10841380.37	10841380.47	10841380.57	0.2661	0.1856
Mercury	24973-02-02 01:55 G	10842293.47	10842293.58	10842293.68	0.2680	0.1178
Mercury	24990-07-30 01:40 G	10848680.50	10848680.57	10848680.64	0.2653	0.2293
Mercury	24993-01-28 16:04 G	10849594.08	10849594.17	10849594.26	0.2671	0.1672

26TH MILLENNIUM CE

This is a list of transits visible from Moon in the 26th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	25003-08-03 03:21	G	10853431.50	10853431.64	10853431.78	0.2657	0.0127	
Mercury	25006-02-01 11:16	G	10854344.85	10854344.97	10854345.08	0.2675	0.0133	
Mercury	25016-08-05 05:02	G	10858182.65	10858182.71	10858182.78	0.2661	0.2350	
Mercury	25019-02-04 06:57	G	10859095.69	10859095.79	10859095.88	0.2680	0.1574	
Mercury	25036-07-31 07:26	G	10865482.70	10865482.81	10865482.93	0.2653	0.1654	
Mercury	25039-01-30 20:52	G	10866396.27	10866396.37	10866396.47	0.2671	0.1251	
Mercury	25049-08-03 09:21	G	10870233.75	10870233.89	10870234.03	0.2659	0.0457	
Mercury	25052-02-02 16:19	G	10871147.06	10871147.18	10871147.29	0.2677	0.0224	
Venus	25058-01-03 06:14	G	10873308.65	10873308.76	10873308.88	0.2665	0.1881	
Mercury	25065-02-04 12:00	G	10875897.92	10875898.00	10875898.08	0.2680	0.1876	
Venus	25065-12-31 19:55	G	10876228.31	10876228.33	10876228.35	0.2669	0.2634	
Mercury	25072-01-29 06:57	G	10878447.75	10878447.79	10878447.84	0.2668	0.2410	
Mercury	25082-08-01 13:26	G	10882284.94	10882285.06	10882285.18	0.2655	0.1365	
Mercury	25085-01-31 01:55	G	10883198.47	10883198.58	10883198.69	0.2671	0.1056	
Mercury	25095-08-04 15:07	G	10887036.00	10887036.13	10887036.26	0.2659	0.1072	
Mercury	25098-02-02 21:21	G	10887949.27	10887949.39	10887949.50	0.2678	0.0635	
Mercury	25111-02-06 17:16	G	10892700.15	10892700.22	10892700.28	0.2680	0.2228	
Mercury	25118-01-30 12:00	G	10895249.94	10895250.00	10895250.06	0.2668	0.2217	
Mercury	25128-08-02 19:12	G	10899087.16	10899087.30	10899087.44	0.2656	0.0764	
Mercury	25131-02-02 06:57	G	10900000.68	10900000.79	10900000.90	0.2673	0.0610	
Mercury	25141-08-05 21:07	G	10903838.26	10903838.38	10903838.50	0.2659	0.1362	
Mercury	25144-02-05 02:24	G	10904751.49	10904751.60	10904751.71	0.2678	0.0846	
Mercury	25157-02-06 22:33	G	10909502.42	10909502.44	10909502.45	0.2680	0.2642	
Mercury	25161-07-31 23:31	G	10911138.46	10911138.48	10911138.49	0.2653	0.2633	
Mercury	25164-01-31 17:02	G	10912052.12	10912052.21	10912052.29	0.2668	0.1807	

Mercury	25174-08-04 01:12 G	10915889.41	10915889.55	10915889.69	0.2657	0.0443
Mercury	25177-02-02 12:00 G	10916802.88	10916803.00	10916803.11	0.2675	0.0409
Mercury	25187-08-07 03:07 G	10920640.54	10920640.63	10920640.72	0.2660	0.2004
Mercury	25190-02-05 07:26 G	10921553.71	10921553.81	10921553.91	0.2678	0.1306
Venus	25195-07-04 06:00 G	10923528.60	10923528.75	10923528.90	0.2668	0.0118
Mercury	25207-08-02 05:16 G	10927940.64	10927940.72	10927940.80	0.2654	0.2191
Mercury	25210-01-31 21:50 G	10928854.32	10928854.41	10928854.51	0.2669	0.1574
Mercury	25220-08-04 06:57 G	10932691.65	10932691.79	10932691.94	0.2657	0.0124
Mercury	25223-02-03 17:02 G	10933605.09	10933605.21	10933605.32	0.2676	0.0097
Mercury	25233-08-07 09:21 G	10937442.82	10937442.89	10937442.95	0.2662	0.2324
Mercury	25236-02-06 12:43 G	10938355.93	10938356.03	10938356.12	0.2679	0.1540
Mercury	25243-01-30 08:09 G	10940905.84	10940905.84	10940905.85	0.2666	0.2655
Mercury	25253-08-02 11:02 G	10944742.86	10944742.96	10944743.07	0.2655	0.1805
Mercury	25256-02-02 02:52 G	10945656.52	10945656.62	10945656.72	0.2671	0.1247
Mercury	25266-08-05 12:57 G	10949493.91	10949494.04	10949494.18	0.2658	0.0534
Mercury	25269-02-03 22:04 G	10950407.30	10950407.42	10950407.53	0.2676	0.0266
Mercury	25282-02-06 18:00 G	10955158.17	10955158.25	10955158.32	0.2680	0.2011
Mercury	25289-01-30 13:12 G	10957708.00	10957708.05	10957708.09	0.2667	0.2430
Mercury	25299-08-03 17:02 G	10961545.08	10961545.21	10961545.33	0.2656	0.1226
Venus	25301-01-05 13:12 G	10962064.96	10962065.05	10962065.14	0.2676	0.2097
Mercury	25302-02-03 07:40 G	10962458.71	10962458.82	10962458.93	0.2673	0.0913
Venus	25309-01-03 07:40 G	10964984.67	10964984.82	10964984.96	0.2672	0.0947
Mercury	25312-08-06 19:12 G	10966296.17	10966296.30	10966296.43	0.2660	0.1014
Mercury	25315-02-06 03:07 G	10967209.51	10967209.63	10967209.74	0.2676	0.0648
Mercury	25328-02-08 23:02 G	10971960.40	10971960.46	10971960.52	0.2680	0.2253
Mercury	25335-02-01 18:00 G	10974510.18	10974510.25	10974510.32	0.2668	0.2032
Mercury	25345-08-04 23:02 G	10978347.32	10978347.46	10978347.59	0.2656	0.0905
Mercury	25348-02-04 12:43 G	10979260.92	10979261.03	10979261.14	0.2673	0.0669
Mercury	25358-08-08 01:12 G	10983098.43	10983098.55	10983098.66	0.2661	0.1544
Mercury	25361-02-06 08:09 G	10984011.74	10984011.84	10984011.95	0.2678	0.0976

Mercury	25374-02-09 04:04 G	10988762.66	10988762.67	10988762.68	0.2680	0.2662
Mercury	25381-02-01 22:48 G	10991312.37	10991312.45	10991312.53	0.2669	0.1865
Mercury	25391-08-06 04:48 G	10995149.56	10995149.70	10995149.85	0.2657	0.0285
Mercury	25394-02-04 17:45 G	10996063.12	10996063.24	10996063.35	0.2673	0.0261
Mercury	25404-08-09 06:57 G	10999900.70	10999900.79	10999900.89	0.2662	0.1882
Mercury	25407-02-08 13:26 G	11000813.96	11000814.06	11000814.16	0.2679	0.1282
Mercury	25424-08-04 08:52 G	11007200.78	11007200.87	11007200.95	0.2654	0.2148
Mercury	25427-02-04 03:36 G	11008114.56	11008114.65	11008114.75	0.2670	0.1442
Mercury	25437-08-07 11:02 G	11011951.81	11011951.96	11011952.10	0.2659	0.0073
Venus	25438-07-06 06:57 G	11012284.62	11012284.79	11012284.95	0.2656	0.0601
Mercury	25440-02-06 22:48 G	11012865.33	11012865.45	11012865.57	0.2674	0.0047
Mercury	25450-08-10 12:57 G	11016702.99	11016703.04	11016703.09	0.2662	0.2486
Mercury	25453-02-08 18:28 G	11017616.18	11017616.27	11017616.36	0.2679	0.1691
Mercury	25460-02-02 14:09 G	11020166.07	11020166.09	11020166.12	0.2666	0.2589
Mercury	25470-08-05 14:52 G	11024003.01	11024003.12	11024003.22	0.2654	0.1800
Mercury	25473-02-04 08:38 G	11024916.76	11024916.86	11024916.96	0.2670	0.1253
Mercury	25483-08-08 16:48 G	11028754.06	11028754.20	11028754.34	0.2660	0.0650
Mercury	25486-02-07 03:50 G	11029667.55	11029667.66	11029667.78	0.2676	0.0427
Mercury	25499-02-09 23:31 G	11034418.40	11034418.48	11034418.56	0.2679	0.1925
Mercury	25506-02-03 18:57 G	11036968.24	11036968.29	11036968.34	0.2667	0.2338
Mercury	25516-08-06 20:38 G	11040805.24	11040805.36	11040805.49	0.2656	0.1262
Mercury	25519-02-06 13:40 G	11041718.96	11041719.07	11041719.18	0.2671	0.0823
Mercury	25529-08-09 22:48 G	11045556.32	11045556.45	11045556.58	0.2661	0.0959
Mercury	25532-02-09 09:07 G	11046469.76	11046469.88	11046469.99	0.2677	0.0632
Venus	25544-01-08 11:45 G	11050820.85	11050820.99	11050821.13	0.2662	0.1516
Mercury	25545-02-11 04:48 G	11051220.65	11051220.70	11051220.75	0.2679	0.2390
Mercury	25552-02-04 23:45 G	11053770.42	11053770.49	11053770.57	0.2668	0.2060
Mercury	25562-08-08 02:38 G	11057607.47	11057607.61	11057607.74	0.2658	0.0809
Mercury	25565-02-06 18:43 G	11058521.17	11058521.28	11058521.39	0.2672	0.0585
Mercury	25575-08-11 04:48 G	11062358.58	11062358.70	11062358.81	0.2661	0.1550

Mercury	25578-02-09 13:55 G	11063271.98	11063272.08	11063272.19	0.2677	0.1074
Mercury	25591-02-12 10:04 G	11068022.90	11068022.92	11068022.94	0.2679	0.2633
Mercury	25595-08-06 06:28 G	11069658.75	11069658.77	11069658.80	0.2654	0.2594
Mercury	25598-02-05 04:48 G	11070572.61	11070572.70	11070572.79	0.2668	0.1708
Mercury	25608-08-08 08:38 G	11074409.71	11074409.86	11074410.00	0.2659	0.0411
Mercury	25611-02-07 23:45 G	11075323.37	11075323.49	11075323.60	0.2674	0.0248
Mercury	25621-08-11 10:48 G	11079160.86	11079160.95	11079161.05	0.2662	0.1956
Mercury	25624-02-10 19:12 G	11080074.20	11080074.30	11080074.40	0.2677	0.1304
Mercury	25641-08-06 12:28 G	11086460.95	11086461.02	11086461.09	0.2655	0.2304
Mercury	25644-02-06 09:50 G	11087374.81	11087374.91	11087375.00	0.2668	0.1476
Mercury	25654-08-09 14:24 G	11091211.96	11091212.10	11091212.25	0.2659	0.0183
Mercury	25657-02-08 04:33 G	11092125.58	11092125.69	11092125.81	0.2675	0.0140
Mercury	25667-08-12 17:02 G	11095963.16	11095963.21	11095963.27	0.2663	0.2456
Mercury	25670-02-11 00:14 G	11096876.42	11096876.51	11096876.60	0.2678	0.1711
Mercury	25677-02-03 20:09 G	11099426.32	11099426.34	11099426.35	0.2666	0.2631
Venus	25681-07-07 03:21 G	11101040.51	11101040.64	11101040.77	0.2669	0.1338
Mercury	25687-08-07 18:14 G	11103263.15	11103263.26	11103263.37	0.2657	0.1676
Mercury	25690-02-06 14:38 G	11104177.00	11104177.11	11104177.22	0.2670	0.1067
Mercury	25700-08-10 20:38 G	11108014.22	11108014.36	11108014.50	0.2659	0.0513
Mercury	25703-02-10 09:36 G	11108927.79	11108927.90	11108928.02	0.2675	0.0372
Mercury	25716-02-13 05:31 G	11113678.65	11113678.73	11113678.80	0.2679	0.2052
Mercury	25723-02-06 00:57 G	11116228.48	11116228.54	11116228.61	0.2666	0.2197
Mercury	25733-08-09 00:14 G	11120065.38	11120065.51	11120065.63	0.2657	0.1392
Mercury	25736-02-08 19:40 G	11120979.21	11120979.32	11120979.43	0.2672	0.0892
Mercury	25746-08-12 02:38 G	11124816.48	11124816.61	11124816.74	0.2661	0.1148
Mercury	25749-02-10 14:38 G	11125730.00	11125730.11	11125730.23	0.2675	0.0778
Mercury	25762-02-13 10:33 G	11130480.89	11130480.94	11130480.99	0.2679	0.2356
Mercury	25769-02-06 06:00 G	11133030.67	11133030.75	11133030.82	0.2667	0.2014
Mercury	25779-08-10 06:14 G	11136867.62	11136867.76	11136867.90	0.2657	0.0744
Mercury	25782-02-09 00:28 G	11137781.41	11137781.52	11137781.64	0.2672	0.0445

Venus	25787-01-09 12:14 G	11139576.91	11139577.01	11139577.12	0.2675	0.1842
Mercury	25792-08-12 08:38 G	11141618.75	11141618.86	11141618.98	0.2663	0.1456
Venus	25795-01-07 08:09 G	11142496.72	11142496.84	11142496.95	0.2673	0.1736
Mercury	25795-02-11 19:55 G	11142532.22	11142532.33	11142532.44	0.2677	0.1011
Mercury	25815-02-08 10:48 G	11149832.86	11149832.95	11149833.04	0.2668	0.1651
Mercury	25825-08-11 12:14 G	11153669.87	11153670.01	11153670.15	0.2658	0.0403
Mercury	25828-02-11 05:31 G	11154583.62	11154583.73	11154583.85	0.2672	0.0258
Mercury	25838-08-14 14:38 G	11158421.03	11158421.11	11158421.20	0.2664	0.2097
Mercury	25841-02-13 00:57 G	11159334.45	11159334.54	11159334.64	0.2678	0.1481
Mercury	25858-08-09 15:50 G	11165721.08	11165721.16	11165721.24	0.2655	0.2207
Mercury	25861-02-08 15:36 G	11166635.05	11166635.15	11166635.25	0.2669	0.1385
Mercury	25871-08-12 18:14 G	11170472.12	11170472.26	11170472.40	0.2660	0.0148
Mercury	25874-02-11 10:33 G	11171385.83	11171385.94	11171386.06	0.2673	0.0184
Mercury	25884-08-14 20:38 G	11175223.30	11175223.36	11175223.42	0.2664	0.2393
Mercury	25887-02-14 06:00 G	11176136.67	11176136.75	11176136.84	0.2678	0.1678
Mercury	25894-02-07 02:09 G	11178686.55	11178686.59	11178686.63	0.2666	0.2454
Mercury	25904-08-10 21:50 G	11182523.30	11182523.41	11182523.52	0.2656	0.1807
Mercury	25907-02-10 20:38 G	11183437.25	11183437.36	11183437.46	0.2669	0.1084
Mercury	25917-08-14 00:14 G	11187274.37	11187274.51	11187274.65	0.2662	0.0616
Mercury	25920-02-13 15:36 G	11188188.04	11188188.15	11188188.27	0.2675	0.0441
Venus	25924-07-10 12:00 G	11189796.83	11189797.00	11189797.16	0.2660	0.0172
Mercury	25933-02-15 11:17 G	11192938.90	11192938.97	11192939.03	0.2678	0.2133
Mercury	25940-02-09 06:57 G	11195488.73	11195488.79	11195488.85	0.2667	0.2267
Mercury	25950-08-12 03:50 G	11199325.53	11199325.66	11199325.79	0.2657	0.1208
Mercury	25953-02-11 01:26 G	11200239.45	11200239.56	11200239.67	0.2670	0.0743
Mercury	25963-08-15 06:14 G	11204076.63	11204076.76	11204076.89	0.2662	0.1037
Mercury	25966-02-13 20:38 G	11204990.25	11204990.36	11204990.47	0.2676	0.0793
Mercury	25979-02-16 16:19 G	11209741.13	11209741.18	11209741.23	0.2678	0.2381
Mercury	25986-02-09 11:45 G	11212290.91	11212290.99	11212291.07	0.2667	0.1854
Mercury	25996-08-12 09:50 G	11216127.77	11216127.91	11216128.04	0.2659	0.0910

Mercury 25999-02-12 06:29 G 11217041.66 11217041.77 11217041.88 0.2671 0.0492

27TH MILLENNIUM CE

This is a list of transits visible from Moon in the 27th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	26009-08-15 12:14	G	11220878.90	11220879.01	11220879.13	0.2662	0.1596	
Mercury	26012-02-15 01:41	G	11221792.47	11221792.57	11221792.68	0.2677	0.1123	
Venus	26030-01-11 18:00	G	11228333.11	11228333.25	11228333.38	0.2662	0.1534	
Mercury	26032-02-10 16:48	G	11229093.11	11229093.20	11229093.29	0.2667	0.1681	
Venus	26038-01-09 04:48	G	11231252.61	11231252.70	11231252.79	0.2661	0.2195	
Mercury	26042-08-13 15:50	G	11232930.01	11232930.16	11232930.30	0.2660	0.0262	
Mercury	26045-02-12 11:31	G	11233843.86	11233843.98	11233844.09	0.2673	0.0073	
Mercury	26055-08-16 18:29	G	11237681.17	11237681.27	11237681.36	0.2663	0.1960	
Mercury	26058-02-15 06:43	G	11238594.69	11238594.78	11238594.88	0.2676	0.1414	
Mercury	26075-08-11 19:12	G	11244981.22	11244981.30	11244981.38	0.2657	0.2198	
Mercury	26078-02-10 21:36	G	11245895.30	11245895.40	11245895.50	0.2668	0.1244	
Mercury	26088-08-13 21:50	G	11249732.26	11249732.41	11249732.55	0.2660	0.0069	
Mercury	26091-02-13 16:33	G	11250646.07	11250646.19	11250646.30	0.2674	0.0131	
Mercury	26101-08-18 00:43	G	11254483.50	11254483.53	11254483.55	0.2665	0.2607	
Mercury	26104-02-17 12:00	G	11255396.92	11255397.00	11255397.08	0.2677	0.1833	
Mercury	26111-02-10 08:09	G	11257946.79	11257946.84	11257946.88	0.2665	0.2415	
Mercury	26121-08-13 01:12	G	11261783.44	11261783.55	11261783.66	0.2658	0.1801	
Mercury	26124-02-13 02:38	G	11262697.50	11262697.61	11262697.71	0.2670	0.1057	

Mercury	26134-08-16 03:50 G	11266534.52	11266534.66	11266534.80	0.2660	0.0686
Mercury	26137-02-14 21:36 G	11267448.28	11267448.40	11267448.51	0.2674	0.0582
Mercury	26150-02-17 17:17 G	11272199.15	11272199.22	11272199.29	0.2678	0.2080
Mercury	26157-02-10 12:57 G	11274748.98	11274749.04	11274749.11	0.2665	0.2142
Venus	26159-07-14 11:45 G	11275632.89	11275632.99	11275633.09	0.2661	0.2055
Venus	26167-07-12 02:24 G	11278552.51	11278552.60	11278552.69	0.2667	0.2140
Mercury	26167-08-14 07:12 G	11278585.67	11278585.80	11278585.92	0.2658	0.1321
Mercury	26170-02-13 07:26 G	11279499.70	11279499.81	11279499.92	0.2671	0.0679
Mercury	26180-08-16 10:05 G	11283336.78	11283336.92	11283337.05	0.2662	0.1040
Mercury	26183-02-16 02:38 G	11284250.50	11284250.61	11284250.72	0.2675	0.0774
Mercury	26196-02-18 22:19 G	11289001.40	11289001.43	11289001.46	0.2678	0.2547
Mercury	26203-02-12 17:45 G	11291551.16	11291551.24	11291551.33	0.2666	0.1859
Mercury	26213-08-15 13:12 G	11295387.91	11295388.05	11295388.19	0.2658	0.0803
Mercury	26216-02-15 12:29 G	11296301.90	11296302.02	11296302.13	0.2671	0.0416
Mercury	26226-08-18 16:05 G	11300139.06	11300139.17	11300139.28	0.2664	0.1599
Mercury	26229-02-17 07:41 G	11301052.72	11301052.82	11301052.92	0.2676	0.1217
Mercury	26249-02-12 22:48 G	11308353.35	11308353.45	11308353.54	0.2668	0.1518
Mercury	26259-08-16 19:26 G	11312190.16	11312190.31	11312190.45	0.2659	0.0393
Mercury	26262-02-15 17:17 G	11313104.11	11313104.22	11313104.34	0.2672	0.0133
Mercury	26272-08-18 22:05 G	11316941.34	11316941.42	11316941.51	0.2665	0.2063
Venus	26273-01-13 12:00 G	11317088.86	11317089.00	11317089.14	0.2670	0.1113
Mercury	26275-02-18 12:57 G	11317854.94	11317855.04	11317855.13	0.2677	0.1492
Mercury	26282-02-11 09:21 G	11320404.87	11320404.89	11320404.91	0.2664	0.2586
Mercury	26292-08-13 22:33 G	11324241.38	11324241.44	11324241.51	0.2657	0.2368
Mercury	26295-02-14 03:36 G	11325155.55	11325155.65	11325155.75	0.2669	0.1323
Mercury	26305-08-18 01:26 G	11328992.42	11328992.56	11328992.70	0.2661	0.0219
Mercury	26308-02-17 22:33 G	11329906.32	11329906.44	11329906.55	0.2672	0.0279
Mercury	26318-08-21 04:19 G	11333743.63	11333743.68	11333743.72	0.2665	0.2505
Mercury	26321-02-19 17:45 G	11334657.16	11334657.24	11334657.33	0.2677	0.1850
Mercury	26328-02-13 14:09 G	11337207.05	11337207.09	11337207.14	0.2665	0.2419

Mercury	26338-08-16 04:33 G	11341043.58	11341043.69	11341043.81	0.2657	0.1691
Mercury	26341-02-15 08:24 G	11341957.74	11341957.85	11341957.96	0.2669	0.0896
Mercury	26351-08-19 07:26 G	11345794.67	11345794.81	11345794.95	0.2663	0.0531
Mercury	26354-02-18 03:36 G	11346708.53	11346708.65	11346708.76	0.2674	0.0530
Mercury	26367-02-20 22:48 G	11351459.39	11351459.45	11351459.52	0.2677	0.2174
Mercury	26374-02-13 18:57 G	11354009.22	11354009.29	11354009.36	0.2666	0.2034
Mercury	26384-08-16 10:48 G	11357845.82	11357845.95	11357846.07	0.2659	0.1382
Mercury	26387-02-16 13:26 G	11358759.95	11358760.06	11358760.17	0.2669	0.0711
Mercury	26397-08-19 13:26 G	11362596.94	11362597.06	11362597.19	0.2663	0.1195
Mercury	26400-02-19 08:38 G	11363510.75	11363510.86	11363510.96	0.2676	0.0960
Venus	26410-07-14 14:09 G	11367308.94	11367309.09	11367309.25	0.2665	0.0531
Mercury	26413-02-21 04:05 G	11368261.63	11368261.67	11368261.71	0.2677	0.2481
Mercury	26420-02-14 23:45 G	11370811.41	11370811.49	11370811.57	0.2666	0.1833
Mercury	26430-08-17 16:33 G	11374648.06	11374648.19	11374648.33	0.2660	0.0792
Mercury	26433-02-16 18:29 G	11375562.15	11375562.27	11375562.38	0.2671	0.0267
Mercury	26443-08-20 19:41 G	11379399.20	11379399.32	11379399.44	0.2663	0.1480
Mercury	26446-02-19 13:41 G	11380312.96	11380313.07	11380313.17	0.2676	0.1156
Mercury	26466-02-15 04:48 G	11387613.60	11387613.70	11387613.79	0.2666	0.1465
Mercury	26476-08-17 22:48 G	11391450.30	11391450.45	11391450.59	0.2662	0.0380
Mercury	26479-02-17 23:31 G	11392364.36	11392364.48	11392364.59	0.2672	0.0082
Mercury	26489-08-21 01:55 G	11396201.49	11396201.58	11396201.66	0.2664	0.2149
Mercury	26492-02-20 18:43 G	11397115.18	11397115.28	11397115.37	0.2676	0.1614
Mercury	26499-02-13 15:21 G	11399665.12	11399665.14	11399665.15	0.2664	0.2628
Mercury	26509-08-17 01:55 G	11403501.51	11403501.58	11403501.66	0.2658	0.2232
Mercury	26512-02-17 09:36 G	11404415.80	11404415.90	11404416.01	0.2667	0.1202
Venus	26516-01-16 23:02 G	11405845.36	11405845.46	11405845.56	0.2665	0.2008
Mercury	26522-08-20 04:48 G	11408252.56	11408252.70	11408252.85	0.2662	0.0143
Venus	26524-01-14 12:29 G	11408764.90	11408765.02	11408765.14	0.2661	0.1803
Mercury	26525-02-19 04:19 G	11409166.57	11409166.68	11409166.80	0.2673	0.0337
Mercury	26535-08-23 08:09 G	11413003.80	11413003.84	11413003.88	0.2666	0.2526

Mercury	26538-02-21 23:45 G	11413917.41	11413917.49	11413917.57	0.2676	0.1831
Mercury	26545-02-14 20:09 G	11416467.28	11416467.34	11416467.40	0.2664	0.2261
Mercury	26555-08-18 07:55 G	11420303.73	11420303.83	11420303.94	0.2659	0.1894
Mercury	26558-02-17 14:38 G	11421218.00	11421218.11	11421218.22	0.2669	0.0906
Mercury	26568-08-20 11:02 G	11425054.82	11425054.96	11425055.10	0.2662	0.0637
Mercury	26571-02-20 09:21 G	11425968.78	11425968.89	11425969.00	0.2673	0.0590
Mercury	26584-02-23 05:02 G	11430719.65	11430719.71	11430719.76	0.2677	0.2276
Mercury	26591-02-16 01:12 G	11433269.48	11433269.55	11433269.62	0.2664	0.2068
Mercury	26601-08-19 13:55 G	11437105.95	11437106.08	11437106.21	0.2660	0.1242
Mercury	26604-02-19 19:26 G	11438020.20	11438020.31	11438020.42	0.2670	0.0546
Mercury	26614-08-22 17:17 G	11441857.09	11441857.22	11441857.35	0.2663	0.1072
Mercury	26617-02-21 14:24 G	11442770.99	11442771.10	11442771.21	0.2674	0.0944
Mercury	26630-02-24 10:05 G	11447521.89	11447521.92	11447521.95	0.2677	0.2544
Mercury	26637-02-17 06:00 G	11450071.66	11450071.75	11450071.84	0.2665	0.1658
Venus	26645-07-18 15:36 G	11453145.01	11453145.15	11453145.28	0.2659	0.1639
Mercury	26647-08-20 20:09 G	11453908.20	11453908.34	11453908.48	0.2660	0.0935
Mercury	26650-02-20 00:29 G	11454822.40	11454822.52	11454822.63	0.2671	0.0351
Venus	26653-07-16 03:21 G	11456064.55	11456064.64	11456064.73	0.2664	0.2197
Mercury	26660-08-22 23:31 G	11458659.37	11458659.48	11458659.59	0.2665	0.1694
Mercury	26663-02-22 19:26 G	11459573.21	11459573.31	11459573.41	0.2675	0.1298
Mercury	26683-02-18 10:48 G	11466873.86	11466873.95	11466874.04	0.2667	0.1488
Mercury	26693-08-21 02:09 G	11470710.45	11470710.59	11470710.74	0.2661	0.0270
Mercury	26696-02-21 05:17 G	11471624.61	11471624.72	11471624.84	0.2671	0.0108
Mercury	26706-08-25 05:31 G	11475461.64	11475461.73	11475461.82	0.2666	0.2007
Mercury	26709-02-24 00:43 G	11476375.44	11476375.53	11476375.62	0.2676	0.1566
Mercury	26716-02-17 21:36 G	11478925.37	11478925.40	11478925.43	0.2663	0.2552
Mercury	26726-08-20 05:02 G	11482761.64	11482761.71	11482761.79	0.2658	0.2288
Mercury	26729-02-19 15:36 G	11483676.05	11483676.15	11483676.26	0.2668	0.1082
Mercury	26739-08-23 08:24 G	11487512.71	11487512.85	11487513.00	0.2663	0.0095
Mercury	26742-02-22 10:19 G	11488426.82	11488426.93	11488427.05	0.2672	0.0306

Mercury	26752-08-25 11:31 G	11492263.98	11492263.98	11492263.99	0.2666	0.2662
Mercury	26755-02-25 05:45 G	11493177.66	11493177.74	11493177.81	0.2677	0.1997
Venus	26759-01-18 14:09 G	11494600.93	11494601.09	11494601.25	0.2664	0.0378
Mercury	26762-02-18 02:24 G	11495727.54	11495727.60	11495727.66	0.2664	0.2220
Mercury	26772-08-20 11:17 G	11499563.87	11499563.97	11499564.08	0.2658	0.1842
Mercury	26775-02-20 20:38 G	11500478.25	11500478.36	11500478.46	0.2668	0.0891
Mercury	26785-08-23 14:24 G	11504314.96	11504315.10	11504315.24	0.2664	0.0685
Mercury	26788-02-23 15:21 G	11505229.03	11505229.14	11505229.25	0.2673	0.0745
Mercury	26801-02-25 10:48 G	11509979.89	11509979.95	11509980.01	0.2676	0.2205
Mercury	26808-02-19 06:57 G	11512529.72	11512529.79	11512529.87	0.2665	0.1949
Mercury	26818-08-21 17:31 G	11516366.11	11516366.23	11516366.36	0.2660	0.1340
Mercury	26821-02-21 01:26 G	11517280.45	11517280.56	11517280.67	0.2668	0.0495
Mercury	26831-08-24 20:38 G	11521117.23	11521117.36	11521117.49	0.2665	0.1075
Mercury	26834-02-23 20:24 G	11522031.25	11522031.35	11522031.46	0.2675	0.0957
Mercury	26847-02-26 15:50 G	11526782.16	11526782.16	11526782.17	0.2676	0.2665
Mercury	26854-02-19 12:00 G	11529331.91	11529332.00	11529332.08	0.2665	0.1704
Mercury	26864-08-21 23:31 G	11533168.34	11533168.48	11533168.62	0.2662	0.0795
Mercury	26867-02-22 06:29 G	11534082.65	11534082.77	11534082.88	0.2670	0.0232
Mercury	26877-08-25 02:53 G	11537919.50	11537919.62	11537919.73	0.2665	0.1625
Mercury	26880-02-25 01:26 G	11538833.46	11538833.56	11538833.66	0.2675	0.1360
Venus	26888-07-19 19:26 G	11541901.26	11541901.31	11541901.36	0.2673	0.2489
Venus	26896-07-17 14:09 G	11544820.96	11544821.09	11544821.22	0.2670	0.1464
Mercury	26900-02-20 16:48 G	11546134.10	11546134.20	11546134.30	0.2665	0.1330
Mercury	26910-08-24 05:45 G	11549970.59	11549970.74	11549970.88	0.2663	0.0451
Mercury	26913-02-23 11:31 G	11550884.86	11550884.98	11550885.09	0.2672	0.0107
Mercury	26923-08-27 09:07 G	11554721.79	11554721.88	11554721.96	0.2666	0.2111
Mercury	26926-02-26 06:29 G	11555635.68	11555635.77	11555635.86	0.2675	0.1617
Mercury	26933-02-19 03:36 G	11558185.60	11558185.65	11558185.69	0.2663	0.2410
Mercury	26943-08-22 08:38 G	11562021.80	11562021.86	11562021.92	0.2659	0.2421
Mercury	26946-02-21 21:50 G	11562936.30	11562936.41	11562936.51	0.2666	0.1127

Mercury	26956-08-24 11:45 G	11566772.84	11566772.99	11566773.13	0.2663	0.0214
Mercury	26959-02-24 16:19 G	11567687.07	11567687.18	11567687.30	0.2673	0.0446
Mercury	26969-08-27 15:21 G	11571524.10	11571524.14	11571524.18	0.2667	0.2561
Mercury	26972-02-27 11:31 G	11572437.91	11572437.98	11572438.06	0.2675	0.1989
Mercury	26979-02-20 08:24 G	11574987.79	11574987.85	11574987.91	0.2663	0.2244
Mercury	26989-08-22 14:38 G	11578824.00	11578824.11	11578824.22	0.2661	0.1782
Mercury	26992-02-23 02:38 G	11579738.50	11579738.61	11579738.72	0.2668	0.0709

28TH MILLENNIUM CE

This is a list of transits visible from Moon in the 28th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	27002-01-21 01:41 G		11583357.47	11583357.57	11583357.67	0.2669	0.2002	
Mercury	27002-08-26 18:00 G		11583575.11	11583575.25	11583575.39	0.2663	0.0529	
Mercury	27005-02-25 21:21 G		11584489.28	11584489.39	11584489.50	0.2673	0.0670	
Venus	27010-01-18 18:29 G		11586277.17	11586277.27	11586277.36	0.2663	0.2115	
Mercury	27018-02-28 16:48 G		11589240.15	11589240.20	11589240.25	0.2676	0.2351	
Mercury	27025-02-21 13:12 G		11591789.97	11591790.05	11591790.13	0.2663	0.1830	
Mercury	27035-08-24 20:38 G		11595626.23	11595626.36	11595626.48	0.2661	0.1446	
Mercury	27038-02-24 07:26 G		11596540.70	11596540.81	11596540.93	0.2669	0.0544	
Mercury	27048-08-27 00:14 G		11600377.38	11600377.51	11600377.64	0.2665	0.1212	
Mercury	27051-02-27 02:24 G		11601291.50	11601291.60	11601291.70	0.2673	0.1097	
Mercury	27064-02-29 21:50 G		11606042.39	11606042.41	11606042.43	0.2677	0.2617	
Mercury	27071-02-22 18:00 G		11608592.16	11608592.25	11608592.34	0.2664	0.1635	

Mercury	27081-08-25 02:38 G	11612428.47	11612428.61	11612428.75	0.2661	0.0832
Mercury	27084-02-25 12:29 G	11613342.90	11613343.02	11613343.13	0.2670	0.0115
Mercury	27094-08-28 06:29 G	11617179.65	11617179.77	11617179.89	0.2667	0.1547
Mercury	27097-02-27 07:26 G	11618093.71	11618093.81	11618093.91	0.2674	0.1321
Mercury	27117-02-23 22:48 G	11625394.35	11625394.45	11625394.55	0.2666	0.1305
Mercury	27127-08-27 08:53 G	11629230.73	11629230.87	11629231.02	0.2662	0.0409
Mercury	27130-02-26 17:31 G	11630145.11	11630145.23	11630145.34	0.2670	0.0139
Venus	27131-07-23 20:24 G	11630657.24	11630657.35	11630657.47	0.2660	0.1910
Venus	27139-07-21 06:14 G	11633576.65	11633576.76	11633576.87	0.2662	0.2007
Mercury	27140-08-29 12:29 G	11633981.94	11633982.02	11633982.11	0.2668	0.2176
Mercury	27143-03-01 12:29 G	11634895.94	11634896.02	11634896.11	0.2675	0.1776
Mercury	27150-02-22 09:36 G	11637445.86	11637445.90	11637445.95	0.2662	0.2425
Mercury	27160-08-24 11:31 G	11641281.91	11641281.98	11641282.05	0.2660	0.2312
Mercury	27163-02-25 03:36 G	11642196.55	11642196.65	11642196.76	0.2667	0.1017
Mercury	27173-08-27 15:21 G	11646032.99	11646033.14	11646033.28	0.2664	0.0131
Mercury	27176-02-27 22:19 G	11646947.32	11646947.43	11646947.55	0.2671	0.0499
Mercury	27186-08-30 18:43 G	11650784.25	11650784.28	11650784.32	0.2668	0.2555
Mercury	27189-03-01 17:31 G	11651698.16	11651698.23	11651698.31	0.2676	0.1982
Mercury	27196-02-23 14:24 G	11654248.03	11654248.10	11654248.17	0.2663	0.2068
Mercury	27206-08-25 17:45 G	11658084.14	11658084.24	11658084.34	0.2660	0.1963
Mercury	27209-02-25 08:38 G	11658998.75	11658998.86	11658998.97	0.2667	0.0751
Mercury	27219-08-28 21:21 G	11662835.25	11662835.39	11662835.53	0.2666	0.0675
Mercury	27222-02-28 03:21 G	11663749.53	11663749.64	11663749.75	0.2673	0.0776
Mercury	27235-03-02 22:33 G	11668500.39	11668500.44	11668500.49	0.2676	0.2401
Mercury	27242-02-23 19:12 G	11671050.22	11671050.30	11671050.38	0.2664	0.1898
Venus	27245-01-21 18:57 G	11672113.13	11672113.29	11672113.45	0.2659	0.0399
Mercury	27252-08-26 00:00 G	11674886.37	11674886.50	11674886.63	0.2661	0.1293
Mercury	27255-02-26 13:26 G	11675800.95	11675801.06	11675801.18	0.2667	0.0394
Mercury	27265-08-29 03:36 G	11679637.52	11679637.65	11679637.78	0.2666	0.1042
Mercury	27268-02-29 08:24 G	11680551.75	11680551.85	11680551.96	0.2674	0.1089

Mercury	27281-03-03 03:50 G	11685302.65	11685302.66	11685302.66	0.2675	0.2669
Mercury	27288-02-25 00:00 G	11687852.41	11687852.50	11687852.60	0.2664	0.1486
Mercury	27298-08-27 06:14 G	11691688.62	11691688.76	11691688.89	0.2663	0.0988
Mercury	27301-02-27 18:29 G	11692603.16	11692603.27	11692603.39	0.2669	0.0169
Mercury	27311-08-31 09:36 G	11696439.79	11696439.90	11696440.02	0.2666	0.1681
Mercury	27314-03-02 13:26 G	11697353.96	11697354.06	11697354.15	0.2674	0.1450
Mercury	27321-02-23 11:02 G	11699903.93	11699903.96	11699903.98	0.2662	0.2581
Mercury	27334-02-26 05:02 G	11704654.61	11704654.71	11704654.81	0.2664	0.1322
Mercury	27344-08-28 12:14 G	11708490.86	11708491.01	11708491.16	0.2664	0.0315
Mercury	27347-02-28 23:31 G	11709405.36	11709405.48	11709405.59	0.2671	0.0273
Mercury	27357-08-31 16:05 G	11713242.08	11713242.17	11713242.26	0.2667	0.2029
Mercury	27360-03-02 18:29 G	11714156.18	11714156.27	11714156.36	0.2674	0.1700
Mercury	27367-02-24 15:50 G	11716706.11	11716706.16	11716706.21	0.2662	0.2365
Venus	27374-07-24 16:19 G	11719413.04	11719413.18	11719413.31	0.2672	0.1226
Mercury	27377-08-26 14:53 G	11720542.06	11720542.12	11720542.18	0.2661	0.2398
Mercury	27380-02-27 09:50 G	11721456.80	11721456.91	11721457.02	0.2665	0.0899
Venus	27382-07-22 11:17 G	11722332.90	11722332.97	11722333.04	0.2674	0.2335
Mercury	27390-08-29 18:29 G	11725293.12	11725293.27	11725293.41	0.2665	0.0083
Mercury	27393-03-01 04:19 G	11726207.57	11726207.68	11726207.80	0.2672	0.0456
Mercury	27406-03-04 23:31 G	11730958.42	11730958.48	11730958.55	0.2674	0.2133
Mercury	27413-02-25 20:38 G	11733508.29	11733508.36	11733508.43	0.2662	0.2062
Mercury	27423-08-28 20:53 G	11737344.27	11737344.37	11737344.47	0.2662	0.1902
Mercury	27426-02-28 14:38 G	11738259.00	11738259.11	11738259.22	0.2667	0.0699
Mercury	27436-08-31 00:43 G	11742095.39	11742095.53	11742095.67	0.2665	0.0659
Mercury	27439-03-03 09:21 G	11743009.78	11743009.89	11743010.00	0.2672	0.0888
Mercury	27452-03-05 04:48 G	11747760.65	11747760.70	11747760.75	0.2675	0.2360
Mercury	27459-02-27 01:26 G	11750310.47	11750310.56	11750310.64	0.2662	0.1758
Mercury	27469-08-29 03:07 G	11754146.50	11754146.63	11754146.75	0.2663	0.1477
Mercury	27472-02-29 19:41 G	11755061.20	11755061.32	11755061.43	0.2669	0.0356
Mercury	27482-09-01 06:57 G	11758897.66	11758897.79	11758897.92	0.2666	0.1091

Mercury	27485-03-03 14:24 G	11759812.00	11759812.10	11759812.20	0.2672	0.1091
Venus	27488-01-25 02:53 G	11760869.49	11760869.62	11760869.75	0.2670	0.1296
Venus	27496-01-22 21:50 G	11763789.35	11763789.41	11763789.46	0.2666	0.2460
Mercury	27505-02-28 06:14 G	11767112.67	11767112.76	11767112.85	0.2663	0.1513
Mercury	27515-08-31 09:21 G	11770948.75	11770948.89	11770949.03	0.2663	0.0867
Mercury	27518-03-03 00:29 G	11771863.41	11771863.52	11771863.63	0.2669	0.0058
Mercury	27528-09-02 13:26 G	11775699.94	11775700.06	11775700.17	0.2668	0.1614
Mercury	27531-03-05 19:26 G	11776614.22	11776614.31	11776614.41	0.2673	0.1508
Mercury	27538-02-26 17:02 G	11779164.20	11779164.21	11779164.23	0.2661	0.2621
Mercury	27551-03-01 11:02 G	11783914.86	11783914.96	11783915.06	0.2665	0.1146
Mercury	27561-08-31 15:36 G	11787751.00	11787751.15	11787751.29	0.2664	0.0500
Mercury	27564-03-03 05:31 G	11788665.61	11788665.73	11788665.84	0.2669	0.0235
Mercury	27574-09-03 19:26 G	11792502.23	11792502.31	11792502.39	0.2669	0.2169
Mercury	27577-03-06 00:29 G	11793416.44	11793416.52	11793416.61	0.2674	0.1803
Mercury	27584-02-27 21:50 G	11795966.35	11795966.41	11795966.48	0.2661	0.2208
Mercury	27594-08-29 17:45 G	11799802.20	11799802.24	11799802.28	0.2661	0.2567
Mercury	27597-03-01 15:50 G	11800717.06	11800717.16	11800717.27	0.2666	0.0973
Mercury	27607-09-01 21:50 G	11804553.26	11804553.41	11804553.55	0.2666	0.0191
Mercury	27610-03-04 10:33 G	11805467.83	11805467.94	11805468.05	0.2670	0.0602
Venus	27617-07-27 00:29 G	11808169.44	11808169.52	11808169.60	0.2665	0.2298
Mercury	27620-09-04 01:41 G	11809304.53	11809304.57	11809304.61	0.2669	0.2553
Mercury	27623-03-07 05:31 G	11810218.67	11810218.73	11810218.80	0.2675	0.2117
Venus	27625-07-24 11:17 G	11811088.87	11811088.97	11811089.06	0.2662	0.2204
Mercury	27630-02-28 02:38 G	11812768.54	11812768.61	11812768.68	0.2662	0.2045
Mercury	27640-08-30 00:00 G	11816604.40	11816604.50	11816604.60	0.2661	0.1877
Mercury	27643-03-02 20:38 G	11817519.25	11817519.36	11817519.48	0.2666	0.0553
Mercury	27653-09-02 04:05 G	11821355.52	11821355.67	11821355.81	0.2667	0.0500
Mercury	27656-03-04 15:36 G	11822270.04	11822270.15	11822270.26	0.2672	0.0836
Mercury	27669-03-07 10:33 G	11827020.90	11827020.94	11827020.98	0.2675	0.2474
Mercury	27676-02-29 07:26 G	11829570.72	11829570.81	11829570.90	0.2663	0.1686

Mercury	27686-08-31 06:14 G	11833406.64	11833406.76	11833406.88	0.2663	0.1504
Mercury	27689-03-03 01:41 G	11834321.46	11834321.57	11834321.68	0.2667	0.0373
Mercury	27699-09-03 10:05 G	11838157.79	11838157.92	11838158.05	0.2668	0.1186
Mercury	27702-03-06 20:38 G	11839072.26	11839072.36	11839072.46	0.2673	0.1277
Mercury	27722-03-02 12:14 G	11846372.92	11846373.01	11846373.11	0.2664	0.1457
Venus	27731-01-27 01:12 G	11849625.40	11849625.55	11849625.71	0.2656	0.0975
Mercury	27732-09-01 12:29 G	11850208.88	11850209.02	11850209.16	0.2665	0.0935
Mercury	27735-03-05 06:43 G	11851123.66	11851123.78	11851123.89	0.2668	0.0079
Mercury	27745-09-04 16:19 G	11854960.07	11854960.18	11854960.30	0.2668	0.1516
Mercury	27748-03-07 01:26 G	11855874.47	11855874.56	11855874.66	0.2673	0.1451
Mercury	27755-02-28 23:17 G	11858424.43	11858424.47	11858424.51	0.2661	0.2473
Mercury	27768-03-02 17:02 G	11863175.11	11863175.21	11863175.32	0.2664	0.1135
Mercury	27778-09-02 18:43 G	11867011.13	11867011.28	11867011.42	0.2666	0.0432
Mercury	27781-03-05 11:31 G	11867925.87	11867925.98	11867926.10	0.2670	0.0299
Mercury	27791-09-05 22:48 G	11871762.37	11871762.45	11871762.53	0.2668	0.2168
Mercury	27794-03-08 06:29 G	11872676.69	11872676.77	11872676.85	0.2673	0.1898
Mercury	27801-03-02 03:50 G	11875226.61	11875226.66	11875226.72	0.2661	0.2277
Mercury	27811-09-01 20:53 G	11879062.31	11879062.37	11879062.43	0.2662	0.2417
Mercury	27814-03-04 22:05 G	11879977.31	11879977.42	11879977.53	0.2664	0.0837
Mercury	27824-09-04 00:43 G	11883813.39	11883813.53	11883813.68	0.2666	0.0089
Mercury	27827-03-07 16:33 G	11884728.08	11884728.19	11884728.30	0.2671	0.0633
Mercury	27837-09-07 05:17 G	11888564.70	11888564.72	11888564.74	0.2670	0.2622
Mercury	27840-03-09 11:31 G	11889478.92	11889478.98	11889479.05	0.2673	0.2125
Mercury	27847-03-03 08:53 G	11892028.79	11892028.87	11892028.94	0.2661	0.1891
Mercury	27857-09-02 03:07 G	11895864.54	11895864.63	11895864.72	0.2664	0.2103
Mercury	27860-03-05 02:53 G	11896779.51	11896779.62	11896779.73	0.2666	0.0585
Venus	27860-07-28 14:24 G	11896924.94	11896925.10	11896925.26	0.2670	0.0294
Mercury	27870-09-05 07:12 G	11900615.66	11900615.80	11900615.94	0.2666	0.0619
Mercury	27873-03-07 21:21 G	11901530.29	11901530.39	11901530.50	0.2671	0.0925
Mercury	27886-03-10 16:48 G	11906281.16	11906281.20	11906281.23	0.2674	0.2536

Mercury	27893-03-03 13:41 G	11908830.98	11908831.07	11908831.16	0.2661	0.1712
Mercury	27903-09-04 09:07 G	11912666.76	11912666.88	11912667.01	0.2664	0.1406
Mercury	27906-03-07 07:55 G	11913581.71	11913581.83	11913581.94	0.2668	0.0219
Mercury	27916-09-06 13:26 G	11917417.93	11917418.06	11917418.20	0.2668	0.1018
Mercury	27919-03-10 02:24 G	11918332.50	11918332.60	11918332.70	0.2671	0.1227
Mercury	27939-03-05 18:29 G	11925633.17	11925633.27	11925633.37	0.2663	0.1300
Mercury	27949-09-04 15:21 G	11929469.01	11929469.14	11929469.28	0.2664	0.1099
Mercury	27952-03-07 12:43 G	11930383.92	11930384.03	11930384.14	0.2669	0.0016
Mercury	27962-09-07 19:55 G	11934220.22	11934220.33	11934220.44	0.2669	0.1705
Mercury	27965-03-10 07:41 G	11935134.73	11935134.82	11935134.91	0.2672	0.1613
Mercury	27972-03-03 05:17 G	11937684.68	11937684.72	11937684.77	0.2660	0.2405
Venus	27974-01-29 03:07 G	11938381.48	11938381.63	11938381.78	0.2669	0.0462
Venus	27982-01-26 23:17 G	11941301.42	11941301.47	11941301.51	0.2668	0.2506
Mercury	27985-03-05 23:17 G	11942435.37	11942435.47	11942435.57	0.2664	0.1134
Mercury	27995-09-05 21:50 G	11946271.26	11946271.41	11946271.55	0.2665	0.0404
Mercury	27998-03-08 17:31 G	11947186.12	11947186.23	11947186.35	0.2669	0.0428

29TH MILLENNIUM CE

This is a list of transits visible from Moon in the 29th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	28008-09-08 02:09 G		11951022.50	11951022.59	11951022.69	0.2670	0.2012	
Mercury	28011-03-11 12:43 G		11951936.95	11951937.03	11951937.11	0.2673	0.1852	
Mercury	28018-03-04 10:19 G		11954486.86	11954486.93	11954486.99	0.2660	0.2173	

Mercury	28028-09-02 23:45 G	11958322.45	11958322.49	11958322.53	0.2663	0.2571
Mercury	28031-03-07 04:05 G	11959237.56	11959237.67	11959237.78	0.2666	0.0758
Mercury	28041-09-06 04:19 G	11963073.53	11963073.68	11963073.82	0.2667	0.0082
Mercury	28044-03-08 22:33 G	11963988.33	11963988.44	11963988.55	0.2669	0.0606
Mercury	28057-03-11 17:45 G	11968739.18	11968739.24	11968739.29	0.2674	0.2292
Mercury	28064-03-04 15:07 G	11971289.05	11971289.13	11971289.21	0.2661	0.1877
Mercury	28074-09-04 06:00 G	11975124.66	11975124.75	11975124.85	0.2663	0.2020
Mercury	28077-03-07 08:53 G	11976039.76	11976039.87	11976039.99	0.2666	0.0539
Mercury	28087-09-07 10:33 G	11979875.79	11979875.94	11979876.08	0.2669	0.0582
Mercury	28090-03-10 03:36 G	11980790.55	11980790.65	11980790.76	0.2671	0.1038
Mercury	28103-03-13 22:33 G	11985541.41	11985541.44	11985541.48	0.2674	0.2478
Venus	28103-08-01 01:41 G	11985681.46	11985681.57	11985681.68	0.2670	0.1879
Mercury	28110-03-06 19:41 G	11988091.23	11988091.32	11988091.41	0.2662	0.1575
Mercury	28120-09-05 12:14 G	11991926.90	11991927.01	11991927.13	0.2664	0.1591
Mercury	28123-03-09 13:55 G	11992841.96	11992842.08	11992842.19	0.2666	0.0189
Mercury	28133-09-08 16:48 G	11996678.06	11996678.20	11996678.33	0.2669	0.1073
Mercury	28136-03-11 08:38 G	11997592.76	11997592.86	11997592.96	0.2672	0.1275
Mercury	28143-03-05 06:57 G	12000142.77	12000142.79	12000142.81	0.2659	0.2587
Mercury	28156-03-07 00:29 G	12004893.43	12004893.52	12004893.62	0.2663	0.1371
Mercury	28166-09-06 18:43 G	12008729.14	12008729.28	12008729.42	0.2666	0.0933
Mercury	28169-03-09 18:43 G	12009644.17	12009644.28	12009644.40	0.2667	0.0155
Mercury	28179-09-09 23:02 G	12013480.34	12013480.46	12013480.58	0.2669	0.1547
Mercury	28182-03-12 13:41 G	12014394.98	12014395.07	12014395.16	0.2673	0.1642
Mercury	28189-03-05 11:45 G	12016944.94	12016944.99	12016945.03	0.2660	0.2430
Mercury	28202-03-09 05:17 G	12021695.62	12021695.72	12021695.83	0.2663	0.0978
Mercury	28212-09-08 00:57 G	12025531.40	12025531.54	12025531.68	0.2668	0.0606
Mercury	28215-03-11 23:45 G	12026446.38	12026446.49	12026446.60	0.2669	0.0384
Venus	28217-01-31 09:07 G	12027137.74	12027137.88	12027138.02	0.2657	0.1407
Mercury	28225-09-11 05:31 G	12030282.64	12030282.73	12030282.81	0.2670	0.2153
Mercury	28228-03-13 18:43 G	12031197.20	12031197.28	12031197.35	0.2672	0.1929

Mercury	28235-03-07 16:19 G	12033747.11	12033747.18	12033747.25	0.2661	0.2050
Mercury	28248-03-09 10:19 G	12038497.82	12038497.93	12038498.04	0.2664	0.0789
Mercury	28258-09-09 07:12 G	12042333.65	12042333.80	12042333.94	0.2668	0.0129
Mercury	28261-03-12 04:48 G	12043248.59	12043248.70	12043248.81	0.2670	0.0779
Mercury	28271-09-12 12:00 G	12047084.96	12047085.00	12047085.04	0.2671	0.2559
Mercury	28274-03-14 23:45 G	12047999.43	12047999.49	12047999.55	0.2673	0.2250
Mercury	28281-03-07 21:07 G	12050549.30	12050549.38	12050549.46	0.2661	0.1875
Mercury	28291-09-07 08:53 G	12054384.78	12054384.87	12054384.97	0.2666	0.2064
Mercury	28294-03-10 15:07 G	12055300.02	12055300.13	12055300.24	0.2665	0.0376
Mercury	28304-09-10 13:26 G	12059135.92	12059136.06	12059136.21	0.2668	0.0426
Mercury	28307-03-14 09:50 G	12060050.80	12060050.91	12060051.01	0.2670	0.0980
Mercury	28320-03-16 04:48 G	12064801.69	12064801.70	12064801.71	0.2673	0.2647
Mercury	28327-03-10 01:55 G	12067351.49	12067351.58	12067351.67	0.2661	0.1497
Mercury	28337-09-08 15:21 G	12071187.02	12071187.14	12071187.25	0.2666	0.1615
Mercury	28340-03-11 20:09 G	12072102.22	12072102.34	12072102.45	0.2667	0.0204
Venus	28346-08-02 14:38 G	12074436.95	12074437.11	12074437.27	0.2667	0.0129
Mercury	28350-09-11 19:55 G	12075938.20	12075938.33	12075938.46	0.2669	0.1125
Mercury	28353-03-14 14:38 G	12076853.02	12076853.11	12076853.21	0.2671	0.1409
Mercury	28360-03-07 12:57 G	12079403.03	12079403.04	12079403.06	0.2659	0.2617
Mercury	28373-03-10 06:43 G	12084153.68	12084153.78	12084153.88	0.2662	0.1274
Mercury	28383-09-09 21:36 G	12087989.26	12087989.40	12087989.54	0.2666	0.1059
Mercury	28386-03-13 00:57 G	12088904.43	12088904.54	12088904.65	0.2668	0.0203
Mercury	28396-09-12 02:24 G	12092740.49	12092740.60	12092740.72	0.2671	0.1549
Mercury	28399-03-15 19:41 G	12093655.24	12093655.32	12093655.41	0.2671	0.1620
Mercury	28406-03-08 17:45 G	12096205.18	12096205.24	12096205.30	0.2659	0.2283
Mercury	28419-03-11 11:31 G	12100955.88	12100955.98	12100956.09	0.2663	0.0978
Mercury	28429-09-10 03:50 G	12104791.52	12104791.66	12104791.81	0.2667	0.0527
Mercury	28432-03-13 06:00 G	12105706.63	12105706.75	12105706.86	0.2668	0.0436
Mercury	28442-09-13 08:53 G	12109542.78	12109542.87	12109542.95	0.2672	0.2130
Mercury	28445-03-16 00:43 G	12110457.46	12110457.53	12110457.61	0.2673	0.2053

Mercury	28452-03-08 22:33 G	12113007.37	12113007.44	12113007.51	0.2659	0.2079
Venus	28460-02-02 03:50 G	12115893.51	12115893.66	12115893.81	0.2665	0.0194
Mercury	28462-09-08 05:31 G	12116842.69	12116842.73	12116842.76	0.2664	0.2582
Mercury	28465-03-11 16:19 G	12117758.07	12117758.18	12117758.29	0.2665	0.0658
Venus	28468-01-30 23:17 G	12118813.47	12118813.47	12118813.47	0.2668	0.2664
Mercury	28475-09-11 10:19 G	12121593.78	12121593.93	12121594.08	0.2669	0.0086
Mercury	28478-03-14 10:48 G	12122508.84	12122508.95	12122509.06	0.2668	0.0792
Mercury	28488-09-13 15:07 G	12126345.10	12126345.13	12126345.16	0.2671	0.2602
Mercury	28491-03-17 05:45 G	12127259.69	12127259.74	12127259.80	0.2673	0.2283
Mercury	28498-03-10 03:21 G	12129809.55	12129809.64	12129809.73	0.2660	0.1700
Mercury	28508-09-09 12:00 G	12133644.92	12133645.00	12133645.08	0.2664	0.2250
Mercury	28511-03-13 21:21 G	12134560.28	12134560.39	12134560.50	0.2665	0.0434
Mercury	28521-09-12 16:48 G	12138396.05	12138396.20	12138396.34	0.2670	0.0600
Mercury	28524-03-15 15:50 G	12139311.06	12139311.16	12139311.26	0.2670	0.1104
Mercury	28537-03-18 10:48 G	12144061.94	12144061.95	12144061.96	0.2673	0.2658
Mercury	28544-03-11 08:09 G	12146611.75	12146611.84	12146611.93	0.2662	0.1544
Mercury	28554-09-10 18:14 G	12150447.14	12150447.26	12150447.38	0.2666	0.1532
Mercury	28557-03-14 02:09 G	12151362.48	12151362.59	12151362.70	0.2665	0.0052
Mercury	28567-09-13 23:02 G	12155198.33	12155198.46	12155198.60	0.2671	0.0933
Mercury	28570-03-16 20:53 G	12156113.27	12156113.37	12156113.47	0.2671	0.1376
Mercury	28577-03-09 19:12 G	12158663.28	12158663.30	12158663.33	0.2658	0.2567
Venus	28589-08-04 00:57 G	12163193.39	12163193.54	12163193.68	0.2674	0.0899
Mercury	28590-03-12 12:57 G	12163413.94	12163414.04	12163414.14	0.2662	0.1144
Mercury	28600-09-12 00:43 G	12167249.39	12167249.53	12167249.66	0.2668	0.1179
Mercury	28603-03-16 07:12 G	12168164.69	12168164.80	12168164.91	0.2666	0.0162
Mercury	28613-09-15 05:17 G	12172000.61	12172000.72	12172000.84	0.2671	0.1633
Mercury	28616-03-18 01:55 G	12172915.49	12172915.58	12172915.66	0.2672	0.1770
Mercury	28623-03-12 00:00 G	12175465.44	12175465.50	12175465.56	0.2659	0.2231
Mercury	28636-03-13 17:45 G	12180216.14	12180216.24	12180216.35	0.2662	0.0969
Mercury	28646-09-13 06:57 G	12184051.64	12184051.79	12184051.93	0.2669	0.0532

Mercury	28649-03-16 12:00 G	12184966.89	12184967.00	12184967.11	0.2668	0.0594
Mercury	28659-09-16 12:00 G	12188802.90	12188803.00	12188803.09	0.2671	0.1988
Mercury	28662-03-19 06:43 G	12189717.71	12189717.78	12189717.86	0.2672	0.1982
Mercury	28669-03-12 04:48 G	12192267.62	12192267.70	12192267.77	0.2660	0.1988
Mercury	28682-03-14 22:33 G	12197018.33	12197018.44	12197018.55	0.2663	0.0584
Mercury	28692-09-13 13:12 G	12200853.91	12200854.05	12200854.20	0.2669	0.0124
Mercury	28695-03-17 17:02 G	12201769.10	12201769.21	12201769.32	0.2670	0.0771
Venus	28703-02-05 15:36 G	12204650.01	12204650.15	12204650.29	0.2661	0.1160
Mercury	28708-03-20 11:45 G	12206519.95	12206519.99	12206520.04	0.2672	0.2421
Mercury	28715-03-14 09:36 G	12209069.81	12209069.90	12209069.98	0.2660	0.1733
Mercury	28725-09-12 14:38 G	12212905.03	12212905.11	12212905.20	0.2667	0.2142
Mercury	28728-03-16 03:36 G	12213820.53	12213820.65	12213820.76	0.2665	0.0359
Mercury	28738-09-15 19:41 G	12217656.18	12217656.32	12217656.47	0.2669	0.0482
Mercury	28741-03-18 21:50 G	12218571.31	12218571.41	12218571.51	0.2670	0.1184
Mercury	28754-03-21 17:02 G	12223322.20	12223322.21	12223322.22	0.2672	0.2639
Mercury	28761-03-14 14:24 G	12225872.00	12225872.10	12225872.19	0.2660	0.1390
Mercury	28771-09-13 21:07 G	12229707.27	12229707.38	12229707.49	0.2668	0.1779
Mercury	28774-03-17 08:24 G	12230622.74	12230622.85	12230622.96	0.2666	0.0049
Mercury	28784-09-16 02:09 G	12234458.45	12234458.59	12234458.73	0.2671	0.1026
Mercury	28787-03-20 02:53 G	12235373.53	12235373.62	12235373.72	0.2670	0.1407
Mercury	28794-03-13 01:26 G	12237923.52	12237923.56	12237923.60	0.2658	0.2416
Mercury	28807-03-15 19:12 G	12242674.20	12242674.30	12242674.40	0.2661	0.1180
Mercury	28817-09-14 03:21 G	12246509.50	12246509.64	12246509.78	0.2668	0.1076
Mercury	28820-03-17 13:12 G	12247424.94	12247425.05	12247425.16	0.2667	0.0292
Mercury	28830-09-17 08:38 G	12251260.74	12251260.86	12251260.99	0.2672	0.1489
Venus	28832-08-05 16:48 G	12251949.03	12251949.20	12251949.36	0.2665	0.0252
Mercury	28833-03-20 07:55 G	12252175.75	12252175.83	12252175.92	0.2671	0.1783
Mercury	28840-03-13 06:14 G	12254725.70	12254725.76	12254725.82	0.2658	0.2261
Mercury	28853-03-16 00:00 G	12259476.39	12259476.50	12259476.61	0.2663	0.0796
Mercury	28863-09-15 09:50 G	12263311.77	12263311.91	12263312.06	0.2668	0.0727

Mercury	28866-03-18 18:14 G	12264227.15	12264227.26	12264227.37	0.2667	0.0530
Mercury	28876-09-17 15:07 G	12268063.04	12268063.13	12268063.21	0.2673	0.2145
Mercury	28879-03-21 12:57 G	12268977.98	12268978.04	12268978.11	0.2672	0.2118
Mercury	28886-03-14 11:02 G	12271527.88	12271527.96	12271528.04	0.2658	0.1859
Mercury	28899-03-17 04:48 G	12276278.59	12276278.70	12276278.81	0.2664	0.0639
Mercury	28909-09-16 16:19 G	12280114.03	12280114.18	12280114.33	0.2670	0.0023
Mercury	28912-03-19 23:02 G	12281029.36	12281029.46	12281029.57	0.2668	0.0928
Mercury	28922-09-19 21:21 G	12284865.34	12284865.39	12284865.44	0.2673	0.2487
Mercury	28925-03-22 18:00 G	12285780.21	12285780.25	12285780.30	0.2672	0.2385
Mercury	28932-03-15 15:50 G	12288330.07	12288330.16	12288330.25	0.2659	0.1683
Mercury	28942-09-14 17:31 G	12292165.15	12292165.23	12292165.31	0.2666	0.2229
Mercury	28945-03-18 09:36 G	12293080.79	12293080.90	12293081.01	0.2664	0.0218
Venus	28946-02-06 06:43 G	12293405.62	12293405.78	12293405.94	0.2660	0.0406
Mercury	28955-09-17 22:48 G	12296916.30	12296916.45	12296916.60	0.2672	0.0366
Mercury	28958-03-21 04:05 G	12297831.57	12297831.67	12297831.78	0.2669	0.1140
Mercury	28978-03-16 20:24 G	12305132.26	12305132.35	12305132.45	0.2661	0.1361
Mercury	28988-09-15 00:00 G	12308967.39	12308967.50	12308967.61	0.2668	0.1749
Mercury	28991-03-19 14:38 G	12309882.99	12309883.11	12309883.22	0.2665	0.0107

30TH MILLENNIUM CE

This is a list of transits visible from Moon in the 30th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	29001-09-19 05:02 G		12313718.58	12313718.71	12313718.85	0.2672	0.1032	

Mercury	29004-03-22 09:07 G	12314633.79	12314633.88	12314633.97	0.2671	0.1577
Mercury	29011-03-16 07:41 G	12317183.78	12317183.82	12317183.87	0.2657	0.2427
Mercury	29024-03-18 01:12 G	12321934.45	12321934.55	12321934.65	0.2662	0.1098
Mercury	29034-09-17 06:29 G	12325769.64	12325769.77	12325769.90	0.2670	0.1236
Mercury	29037-03-20 19:26 G	12326685.20	12326685.31	12326685.42	0.2666	0.0362
Mercury	29047-09-20 11:31 G	12330520.86	12330520.98	12330521.11	0.2672	0.1447
Mercury	29050-03-23 14:09 G	12331436.01	12331436.09	12331436.17	0.2671	0.1758
Mercury	29057-03-16 12:29 G	12333985.95	12333986.02	12333986.09	0.2658	0.2101
Mercury	29070-03-19 06:00 G	12338736.65	12338736.75	12338736.86	0.2662	0.0832
Venus	29075-08-08 21:36 G	12340705.25	12340705.40	12340705.55	0.2677	0.0093
Mercury	29080-09-17 12:43 G	12342571.89	12342572.03	12342572.18	0.2671	0.0612
Mercury	29083-03-22 00:29 G	12343487.41	12343487.52	12343487.63	0.2668	0.0614
Mercury	29093-09-20 18:14 G	12347323.16	12347323.26	12347323.35	0.2672	0.2045
Mercury	29096-03-23 18:57 G	12348238.23	12348238.29	12348238.36	0.2671	0.2179
Mercury	29103-03-18 17:17 G	12350788.14	12350788.22	12350788.29	0.2659	0.1932
Mercury	29116-03-20 11:02 G	12355538.85	12355538.96	12355539.07	0.2662	0.0484
Mercury	29126-09-19 19:12 G	12359374.15	12359374.30	12359374.45	0.2671	0.0238
Mercury	29129-03-23 05:17 G	12360289.62	12360289.72	12360289.83	0.2669	0.0927
Mercury	29139-09-23 00:43 G	12364125.50	12364125.53	12364125.56	0.2673	0.2614
Mercury	29142-03-26 00:00 G	12365040.46	12365040.50	12365040.55	0.2671	0.2422
Mercury	29149-03-18 21:50 G	12367590.32	12367590.41	12367590.50	0.2659	0.1537
Mercury	29159-09-17 20:09 G	12371425.29	12371425.34	12371425.40	0.2669	0.2444
Mercury	29162-03-21 15:50 G	12372341.05	12372341.16	12372341.28	0.2664	0.0275
Mercury	29172-09-20 01:26 G	12376176.42	12376176.56	12376176.71	0.2671	0.0474
Mercury	29175-03-24 10:19 G	12377091.83	12377091.93	12377092.03	0.2669	0.1256
Mercury	29182-03-17 09:07 G	12379641.86	12379641.88	12379641.91	0.2657	0.2588
Venus	29189-02-08 19:26 G	12382162.16	12382162.31	12382162.45	0.2664	0.0839
Mercury	29195-03-20 02:53 G	12384392.52	12384392.62	12384392.71	0.2659	0.1381
Venus	29197-02-06 12:00 G	12385081.91	12385082.00	12385082.09	0.2658	0.2205
Mercury	29205-09-18 02:38 G	12388227.49	12388227.61	12388227.72	0.2669	0.1734

Mercury	29208-03-21 20:53 G	12389143.25	12389143.37	12389143.48	0.2666	0.0165
Mercury	29218-09-21 08:09 G	12392978.70	12392978.84	12392978.98	0.2672	0.0841
Mercury	29221-03-24 15:07 G	12393894.04	12393894.13	12393894.23	0.2669	0.1515
Mercury	29228-03-17 13:55 G	12396444.03	12396444.08	12396444.13	0.2657	0.2391
Mercury	29241-03-20 07:41 G	12401194.71	12401194.82	12401194.92	0.2660	0.0975
Mercury	29251-09-19 09:07 G	12405029.75	12405029.88	12405030.01	0.2670	0.1357
Mercury	29254-03-23 01:41 G	12405945.46	12405945.57	12405945.68	0.2667	0.0303
Mercury	29264-09-21 14:53 G	12409781.00	12409781.12	12409781.24	0.2673	0.1577
Mercury	29267-03-25 20:09 G	12410696.27	12410696.34	12410696.42	0.2670	0.1918
Mercury	29274-03-18 18:43 G	12413246.21	12413246.28	12413246.35	0.2657	0.2076
Mercury	29287-03-21 12:29 G	12417996.91	12417997.02	12417997.13	0.2662	0.0787
Mercury	29297-09-19 15:36 G	12421832.00	12421832.15	12421832.30	0.2670	0.0688
Mercury	29300-03-24 06:29 G	12422747.66	12422747.77	12422747.88	0.2667	0.0732
Mercury	29310-09-23 21:07 G	12426583.28	12426583.38	12426583.49	0.2674	0.1936
Mercury	29313-03-27 01:26 G	12427498.49	12427498.56	12427498.62	0.2671	0.2131
Venus	29318-08-10 20:38 G	12429461.19	12429461.36	12429461.53	0.2665	0.0053
Mercury	29320-03-19 23:31 G	12430048.40	12430048.48	12430048.56	0.2657	0.1807
Mercury	29333-03-22 17:17 G	12434799.11	12434799.22	12434799.33	0.2664	0.0454
Mercury	29343-09-21 22:05 G	12438634.27	12438634.42	12438634.57	0.2672	0.0197
Mercury	29346-03-25 11:31 G	12439549.87	12439549.98	12439550.08	0.2667	0.0921
Mercury	29356-09-24 03:36 G	12443385.62	12443385.65	12443385.68	0.2674	0.2602
Mercury	29359-03-28 06:14 G	12444300.74	12444300.76	12444300.79	0.2671	0.2571
Mercury	29366-03-21 04:19 G	12446850.59	12446850.68	12446850.77	0.2659	0.1558
Mercury	29376-09-18 22:48 G	12450685.38	12450685.45	12450685.53	0.2668	0.2345
Mercury	29379-03-23 22:05 G	12451601.31	12451601.42	12451601.53	0.2664	0.0190
Mercury	29389-09-22 04:48 G	12455436.55	12455436.70	12455436.84	0.2673	0.0335
Mercury	29392-03-25 16:33 G	12456352.09	12456352.19	12456352.28	0.2669	0.1327
Mercury	29399-03-19 15:36 G	12458902.13	12458902.15	12458902.16	0.2656	0.2622
Mercury	29412-03-22 09:07 G	12463652.78	12463652.88	12463652.97	0.2660	0.1222
Mercury	29422-09-21 05:31 G	12467487.63	12467487.73	12467487.83	0.2669	0.1960

Mercury	29425-03-25 02:53 G	12468403.51	12468403.62	12468403.73	0.2664	0.0111
Venus	29432-02-11 12:14 G	12470917.85	12470918.01	12470918.17	0.2656	0.0452
Mercury	29435-09-24 11:02 G	12472238.82	12472238.96	12472239.10	0.2674	0.0949
Mercury	29438-03-27 21:21 G	12473154.31	12473154.39	12473154.48	0.2670	0.1594
Mercury	29445-03-20 20:24 G	12475704.29	12475704.35	12475704.40	0.2657	0.2232
Mercury	29458-03-23 13:41 G	12480454.97	12480455.07	12480455.18	0.2661	0.1048
Mercury	29468-09-21 12:00 G	12484289.87	12484290.00	12484290.13	0.2671	0.1225
Mercury	29471-03-26 07:55 G	12485205.72	12485205.83	12485205.94	0.2665	0.0454
Mercury	29481-09-24 17:31 G	12489041.10	12489041.23	12489041.36	0.2673	0.1346
Mercury	29484-03-28 02:24 G	12489956.52	12489956.60	12489956.68	0.2670	0.1906
Mercury	29491-03-22 00:57 G	12492506.47	12492506.54	12492506.61	0.2658	0.2080
Mercury	29504-03-24 18:29 G	12497257.16	12497257.27	12497257.38	0.2661	0.0642
Mercury	29514-09-23 18:29 G	12501092.12	12501092.27	12501092.41	0.2672	0.0896
Mercury	29517-03-27 12:43 G	12502007.93	12502008.03	12502008.14	0.2667	0.0684
Mercury	29527-09-27 00:00 G	12505843.41	12505843.50	12505843.60	0.2674	0.2048
Mercury	29530-03-30 07:26 G	12506758.75	12506758.81	12506758.87	0.2670	0.2238
Mercury	29537-03-23 05:45 G	12509308.65	12509308.74	12509308.82	0.2658	0.1729
Mercury	29550-03-25 23:31 G	12514059.37	12514059.48	12514059.59	0.2662	0.0477
Venus	29553-08-15 00:14 G	12515297.46	12515297.51	12515297.56	0.2673	0.2541
Mercury	29560-09-24 00:43 G	12517894.38	12517894.53	12517894.68	0.2672	0.0173
Venus	29561-08-12 17:17 G	12518217.07	12518217.22	12518217.36	0.2677	0.0659
Mercury	29563-03-28 17:45 G	12518810.14	12518810.24	12518810.34	0.2668	0.1094
Mercury	29573-09-27 06:43 G	12522645.72	12522645.78	12522645.84	0.2674	0.2428
Mercury	29576-03-30 12:29 G	12523560.98	12523561.02	12523561.05	0.2670	0.2508
Mercury	29583-03-24 10:19 G	12526110.84	12526110.93	12526111.03	0.2659	0.1525
Mercury	29593-09-22 01:41 G	12529945.52	12529945.57	12529945.62	0.2670	0.2494
Mercury	29596-03-26 04:19 G	12530861.57	12530861.68	12530861.79	0.2663	0.0069
Mercury	29606-09-25 07:26 G	12534696.66	12534696.81	12534696.96	0.2673	0.0225
Mercury	29609-03-28 22:33 G	12535612.34	12535612.44	12535612.54	0.2669	0.1265
Mercury	29616-03-21 21:50 G	12538162.37	12538162.41	12538162.44	0.2657	0.2499

Mercury	29629-03-24 15:07 G	12542913.03	12542913.13	12542913.23	0.2659	0.1193
Mercury	29639-09-23 08:09 G	12546747.73	12546747.84	12546747.94	0.2671	0.1923
Mercury	29642-03-27 09:07 G	12547663.77	12547663.88	12547664.00	0.2665	0.0157
Mercury	29652-09-25 13:55 G	12551498.94	12551499.08	12551499.22	0.2673	0.0887
Mercury	29655-03-30 03:36 G	12552414.56	12552414.65	12552414.74	0.2668	0.1697
Mercury	29662-03-23 02:24 G	12554964.55	12554964.60	12554964.66	0.2657	0.2292
Venus	29675-02-12 21:21 G	12559674.25	12559674.39	12559674.54	0.2666	0.0831
Mercury	29675-03-25 20:09 G	12559715.23	12559715.34	12559715.44	0.2660	0.0930
Venus	29683-02-10 16:19 G	12562594.08	12562594.18	12562594.28	0.2661	0.2060
Mercury	29685-09-23 14:24 G	12563549.98	12563550.10	12563550.23	0.2671	0.1469
Mercury	29688-03-27 13:55 G	12564465.97	12564466.08	12564466.19	0.2666	0.0502
Mercury	29698-09-26 20:38 G	12568301.24	12568301.36	12568301.49	0.2675	0.1412
Mercury	29701-03-31 08:38 G	12569216.78	12569216.86	12569216.94	0.2669	0.1913
Mercury	29708-03-24 07:12 G	12571766.72	12571766.80	12571766.88	0.2657	0.1928
Mercury	29721-03-27 00:57 G	12576517.43	12576517.54	12576517.64	0.2662	0.0680
Mercury	29731-09-25 21:07 G	12580352.23	12580352.38	12580352.52	0.2672	0.0792
Mercury	29734-03-29 18:57 G	12581268.18	12581268.29	12581268.40	0.2666	0.0751
Mercury	29744-09-28 03:07 G	12585103.53	12585103.63	12585103.73	0.2675	0.1911
Mercury	29747-04-01 13:41 G	12586019.02	12586019.07	12586019.12	0.2670	0.2312
Mercury	29754-03-25 12:00 G	12588568.92	12588569.00	12588569.08	0.2657	0.1754
Mercury	29767-03-28 05:45 G	12593319.62	12593319.74	12593319.85	0.2663	0.0326
Mercury	29777-09-26 03:50 G	12597154.51	12597154.66	12597154.81	0.2673	0.0387
Mercury	29780-03-30 00:00 G	12598070.39	12598070.50	12598070.60	0.2667	0.1069
Mercury	29790-09-29 09:36 G	12601905.85	12601905.90	12601905.95	0.2675	0.2520
Mercury	29793-04-01 18:43 G	12602821.25	12602821.28	12602821.30	0.2670	0.2579
Mercury	29800-03-26 16:48 G	12605371.10	12605371.20	12605371.29	0.2658	0.1367
Venus	29804-08-15 00:00 G	12606973.34	12606973.50	12606973.67	0.2667	0.0491
Mercury	29813-03-29 10:33 G	12610121.83	12610121.94	12610122.05	0.2663	0.0135
Mercury	29823-09-28 10:19 G	12613956.78	12613956.93	12613957.08	0.2674	0.0357
Mercury	29826-04-01 05:02 G	12614872.61	12614872.71	12614872.80	0.2668	0.1425

Mercury	29833-03-25 04:05 G	12617422.63	12617422.67	12617422.71	0.2655	0.2414
Mercury	29846-03-27 21:36 G	12622173.30	12622173.40	12622173.50	0.2660	0.1214
Mercury	29856-09-25 10:33 G	12626007.84	12626007.94	12626008.05	0.2671	0.1961
Mercury	29859-03-30 15:21 G	12626924.03	12626924.14	12626924.25	0.2664	0.0284
Mercury	29869-09-28 16:48 G	12630759.05	12630759.20	12630759.34	0.2675	0.0690
Mercury	29872-04-01 09:50 G	12631674.83	12631674.91	12631675.00	0.2669	0.1655
Mercury	29879-03-26 08:53 G	12634224.81	12634224.87	12634224.93	0.2656	0.2211
Mercury	29892-03-28 02:09 G	12638975.49	12638975.59	12638975.70	0.2661	0.0843
Mercury	29902-09-27 17:17 G	12642810.10	12642810.22	12642810.35	0.2673	0.1488
Mercury	29905-03-31 20:24 G	12643726.24	12643726.35	12643726.46	0.2665	0.0464
Mercury	29915-09-30 23:17 G	12647561.34	12647561.47	12647561.60	0.2675	0.1420
Venus	29918-02-15 19:55 G	12648430.16	12648430.33	12648430.50	0.2653	0.0340
Mercury	29918-04-03 14:53 G	12648477.05	12648477.12	12648477.19	0.2669	0.2068
Mercury	29925-03-27 13:26 G	12651026.99	12651027.06	12651027.14	0.2657	0.1919
Mercury	29938-03-30 07:12 G	12655777.69	12655777.80	12655777.90	0.2661	0.0643
Mercury	29948-09-27 23:45 G	12659612.35	12659612.49	12659612.64	0.2674	0.0917
Mercury	29951-04-02 01:12 G	12660528.45	12660528.55	12660528.66	0.2666	0.0880
Mercury	29961-10-01 06:00 G	12664363.65	12664363.75	12664363.86	0.2675	0.1842
Mercury	29964-04-03 19:41 G	12665279.27	12665279.32	12665279.38	0.2669	0.2251
Mercury	29971-03-28 18:14 G	12667829.17	12667829.26	12667829.35	0.2658	0.1636
Mercury	29984-03-30 12:00 G	12672579.89	12672580.00	12672580.11	0.2661	0.0289
Mercury	29994-09-29 06:14 G	12676414.61	12676414.76	12676414.91	0.2674	0.0360
Mercury	29997-04-02 06:14 G	12677330.66	12677330.76	12677330.86	0.2668	0.1091

31ST MILLENNIUM CE

This is a list of transits visible from Moon in the 31st millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	30004-03-26 05:45	G	12679880.72	12679880.74	12679880.75	0.2655	0.2609	
Mercury	30007-10-02 12:43	G	12681165.98	12681166.03	12681166.08	0.2675	0.2486	
Mercury	30017-03-28 23:02	G	12684631.36	12684631.46	12684631.55	0.2658	0.1425	
Mercury	30027-09-27 06:43	G	12688465.74	12688465.78	12688465.82	0.2672	0.2555	
Mercury	30030-03-31 16:48	G	12689382.09	12689382.20	12689382.31	0.2663	0.0031	
Venus	30039-08-18 23:31	G	12692809.40	12692809.48	12692809.57	0.2670	0.2211	
Mercury	30040-09-29 12:57	G	12693216.89	12693217.04	12693217.19	0.2674	0.0140	
Mercury	30043-04-03 11:02	G	12694132.87	12694132.96	12694133.05	0.2668	0.1456	
Venus	30047-08-16 13:55	G	12695728.95	12695729.08	12695729.23	0.2675	0.1168	
Mercury	30050-03-27 10:19	G	12696682.89	12696682.93	12696682.97	0.2656	0.2458	
Mercury	30063-03-30 03:50	G	12701433.56	12701433.66	12701433.76	0.2658	0.1051	
Mercury	30073-09-27 13:12	G	12705267.97	12705268.05	12705268.14	0.2673	0.2216	
Mercury	30076-03-31 21:36	G	12706184.29	12706184.40	12706184.52	0.2665	0.0272	
Mercury	30086-09-30 19:41	G	12710019.18	12710019.32	12710019.46	0.2675	0.0822	
Mercury	30089-04-03 16:05	G	12710935.08	12710935.17	12710935.25	0.2668	0.1721	
Mercury	30096-03-27 15:07	G	12713485.06	12713485.13	12713485.19	0.2656	0.2087	
Mercury	30109-03-31 08:38	G	12718235.75	12718235.86	12718235.97	0.2659	0.0873	
Mercury	30119-09-29 19:41	G	12722070.20	12722070.32	12722070.45	0.2673	0.1460	
Mercury	30122-04-03 02:38	G	12722986.50	12722986.61	12722986.71	0.2666	0.0627	
Mercury	30132-10-02 02:24	G	12726821.47	12726821.60	12726821.73	0.2676	0.1229	
Mercury	30135-04-05 21:07	G	12727737.31	12727737.38	12727737.45	0.2668	0.2044	
Mercury	30142-03-29 19:55	G	12730287.25	12730287.33	12730287.40	0.2656	0.1926	
Mercury	30155-04-01 13:26	G	12735037.95	12735038.06	12735038.17	0.2661	0.0477	
Venus	30161-02-16 22:19	G	12737186.29	12737186.43	12737186.57	0.2665	0.0765	
Mercury	30165-09-30 02:24	G	12738872.46	12738872.60	12738872.74	0.2673	0.1083	
Mercury	30168-04-03 07:26	G	12739788.70	12739788.81	12739788.92	0.2666	0.0813	

Venus	30169-02-14 18:57 G	12740106.26	12740106.29	12740106.31	0.2664	0.2607
Mercury	30178-10-03 08:53 G	12743623.77	12743623.87	12743623.97	0.2676	0.1958
Mercury	30181-04-06 02:09 G	12744539.54	12744539.59	12744539.63	0.2669	0.2413
Mercury	30188-03-30 00:43 G	12747089.44	12747089.53	12747089.62	0.2656	0.1551
Mercury	30201-04-02 18:14 G	12751840.15	12751840.26	12751840.37	0.2663	0.0313
Mercury	30211-10-02 09:07 G	12755674.73	12755674.88	12755675.03	0.2675	0.0360
Mercury	30214-04-05 12:29 G	12756590.92	12756591.02	12756591.11	0.2666	0.1233
Mercury	30221-03-29 12:00 G	12759140.99	12759141.00	12759141.01	0.2655	0.2635
Mercury	30224-10-04 15:21 G	12760426.07	12760426.14	12760426.21	0.2676	0.2295
Mercury	30227-04-08 07:12 G	12761341.78	12761341.80	12761341.81	0.2669	0.2637
Mercury	30234-04-01 05:17 G	12763891.63	12763891.72	12763891.82	0.2657	0.1345
Mercury	30247-04-03 23:02 G	12768642.35	12768642.46	12768642.57	0.2663	0.0082
Mercury	30257-10-02 15:50 G	12772477.01	12772477.16	12772477.31	0.2676	0.0132
Mercury	30260-04-05 17:31 G	12773393.13	12773393.23	12773393.32	0.2667	0.1431
Mercury	30267-03-30 16:48 G	12775943.14	12775943.20	12775943.25	0.2655	0.2318
Mercury	30280-04-01 10:05 G	12780693.82	12780693.92	12780694.02	0.2659	0.1057
Venus	30290-08-19 01:12 G	12784485.40	12784485.55	12784485.70	0.2671	0.0863
Mercury	30290-09-30 15:50 G	12784528.07	12784528.16	12784528.25	0.2673	0.2136
Mercury	30293-04-04 03:50 G	12785444.55	12785444.66	12785444.77	0.2663	0.0283
Mercury	30303-10-04 22:19 G	12789279.29	12789279.43	12789279.58	0.2676	0.0700
Mercury	30306-04-07 22:19 G	12790195.35	12790195.43	12790195.51	0.2668	0.1850
Mercury	30313-03-31 21:36 G	12792745.33	12792745.40	12792745.46	0.2655	0.2112
Mercury	30326-04-03 14:53 G	12797496.01	12797496.12	12797496.22	0.2660	0.0752
Mercury	30336-10-01 22:33 G	12801330.33	12801330.44	12801330.56	0.2674	0.1689
Mercury	30339-04-06 08:53 G	12802246.76	12802246.87	12802246.98	0.2664	0.0643
Mercury	30349-10-05 04:48 G	12806081.57	12806081.70	12806081.84	0.2676	0.1250
Mercury	30352-04-08 03:21 G	12806997.57	12806997.64	12806997.71	0.2669	0.2056
Mercury	30359-04-02 02:09 G	12809547.51	12809547.59	12809547.67	0.2656	0.1755
Mercury	30372-04-03 19:41 G	12814298.21	12814298.32	12814298.43	0.2660	0.0530
Mercury	30382-10-03 05:02 G	12818132.57	12818132.71	12818132.85	0.2675	0.0959

Mercury	30385-04-06 13:55 G	12819048.97	12819049.08	12819049.18	0.2666	0.0944
Mercury	30395-10-06 11:31 G	12822883.87	12822883.98	12822884.10	0.2676	0.1757
Mercury	30398-04-09 08:09 G	12823799.80	12823799.84	12823799.89	0.2669	0.2433
Venus	30404-02-20 05:02 G	12825942.54	12825942.71	12825942.87	0.2654	0.0637
Mercury	30405-04-02 06:43 G	12826349.70	12826349.78	12826349.87	0.2657	0.1612
Mercury	30418-04-05 00:29 G	12831100.41	12831100.52	12831100.63	0.2661	0.0157
Mercury	30428-10-03 11:45 G	12834934.84	12834934.99	12834935.13	0.2675	0.0615
Mercury	30431-04-07 18:43 G	12835851.18	12835851.28	12835851.38	0.2667	0.1200
Mercury	30438-03-31 18:29 G	12838401.25	12838401.27	12838401.29	0.2655	0.2592
Mercury	30441-10-06 18:29 G	12839686.21	12839686.27	12839686.32	0.2676	0.2451
Mercury	30451-04-03 11:31 G	12843151.88	12843151.98	12843152.08	0.2657	0.1219
Mercury	30464-04-05 05:31 G	12847902.61	12847902.73	12847902.84	0.2662	0.0115
Mercury	30474-10-04 18:14 G	12851737.11	12851737.26	12851737.41	0.2676	0.0146
Mercury	30477-04-07 23:31 G	12852653.39	12852653.48	12852653.57	0.2667	0.1568
Mercury	30484-03-31 23:02 G	12855203.40	12855203.46	12855203.51	0.2655	0.2268
Mercury	30497-04-03 16:19 G	12859954.08	12859954.18	12859954.28	0.2658	0.1056
Mercury	30507-10-03 18:14 G	12863788.18	12863788.26	12863788.35	0.2674	0.2238
Mercury	30510-04-07 10:19 G	12864704.82	12864704.93	12864705.04	0.2664	0.0445
Mercury	30520-10-06 01:12 G	12868539.40	12868539.55	12868539.69	0.2676	0.0560
Mercury	30523-04-10 04:33 G	12869455.61	12869455.69	12869455.77	0.2667	0.1778
Venus	30525-08-23 00:43 G	12870321.45	12870321.53	12870321.62	0.2667	0.2269
Mercury	30530-04-03 03:36 G	12872005.58	12872005.65	12872005.72	0.2655	0.2040
Venus	30533-08-20 12:43 G	12873240.92	12873241.03	12873241.14	0.2673	0.1940
Mercury	30543-04-05 21:07 G	12876756.28	12876756.38	12876756.49	0.2658	0.0678
Mercury	30553-10-04 00:57 G	12880590.42	12880590.54	12880590.65	0.2674	0.1740
Mercury	30556-04-07 15:07 G	12881507.02	12881507.13	12881507.24	0.2665	0.0611
Mercury	30566-10-07 07:55 G	12885341.70	12885341.83	12885341.96	0.2677	0.1269
Mercury	30569-04-10 09:36 G	12886257.84	12886257.90	12886257.96	0.2668	0.2202
Mercury	30576-04-03 08:24 G	12888807.77	12888807.85	12888807.93	0.2655	0.1781
Mercury	30589-04-06 01:55 G	12893558.47	12893558.58	12893558.69	0.2660	0.0462

Mercury	30599-10-05 07:41 G	12897392.68	12897392.82	12897392.95	0.2675	0.1157
Mercury	30602-04-09 19:55 G	12898309.23	12898309.33	12898309.43	0.2665	0.1017
Mercury	30612-10-08 14:24 G	12902143.99	12902144.10	12902144.22	0.2677	0.1731
Mercury	30615-04-12 14:38 G	12903060.06	12903060.11	12903060.15	0.2668	0.2408
Mercury	30622-04-05 13:12 G	12905609.96	12905610.05	12905610.14	0.2656	0.1460
Mercury	30635-04-08 06:43 G	12910360.67	12910360.78	12910360.90	0.2662	0.0189
Mercury	30645-10-06 14:24 G	12914194.95	12914195.10	12914195.25	0.2676	0.0506
Venus	30647-02-21 23:45 G	12914698.34	12914698.49	12914698.64	0.2662	0.0250
Mercury	30648-04-10 00:57 G	12915111.44	12915111.54	12915111.64	0.2665	0.1226
Mercury	30655-04-04 00:29 G	12917661.48	12917661.52	12917661.56	0.2654	0.2453
Mercury	30658-10-09 20:53 G	12918946.30	12918946.37	12918946.45	0.2677	0.2314
Mercury	30668-04-05 18:00 G	12922412.15	12922412.25	12922412.35	0.2657	0.1255
Mercury	30681-04-08 11:45 G	12927162.87	12927162.99	12927163.10	0.2663	0.0187
Mercury	30691-10-07 21:07 G	12930997.23	12930997.38	12930997.53	0.2677	0.0086
Mercury	30694-04-11 06:00 G	12931913.66	12931913.75	12931913.83	0.2666	0.1594
Mercury	30701-04-05 05:17 G	12934463.67	12934463.72	12934463.78	0.2654	0.2301
Mercury	30714-04-07 22:48 G	12939214.34	12939214.45	12939214.55	0.2659	0.0893
Mercury	30724-10-05 20:53 G	12943048.31	12943048.37	12943048.42	0.2674	0.2467
Mercury	30727-04-10 16:33 G	12943965.08	12943965.19	12943965.30	0.2663	0.0393
Mercury	30737-10-09 03:36 G	12947799.50	12947799.65	12947799.80	0.2677	0.0653
Mercury	30740-04-12 10:48 G	12948715.88	12948715.95	12948716.03	0.2668	0.1907
Mercury	30747-04-06 10:05 G	12951265.85	12951265.92	12951266.00	0.2654	0.1914
Mercury	30760-04-08 03:21 G	12956016.54	12956016.64	12956016.75	0.2660	0.0747
Venus	30768-08-25 06:43 G	12959077.69	12959077.78	12959077.87	0.2679	0.2112
Mercury	30770-10-07 03:36 G	12959850.53	12959850.65	12959850.77	0.2676	0.1700
Mercury	30773-04-10 21:21 G	12960767.29	12960767.39	12960767.50	0.2663	0.0766
Venus	30776-08-23 00:00 G	12961997.36	12961997.50	12961997.64	0.2675	0.1085
Mercury	30783-10-10 10:19 G	12964601.79	12964601.93	12964602.07	0.2677	0.1015
Mercury	30786-04-13 15:50 G	12965518.10	12965518.16	12965518.22	0.2668	0.2164
Mercury	30793-04-06 14:53 G	12968068.04	12968068.12	12968068.20	0.2655	0.1747

Mercury	30806-04-09 08:09 G	12972818.73	12972818.84	12972818.95	0.2660	0.0346
Mercury	30816-10-07 10:19 G	12976652.79	12976652.93	12976653.06	0.2677	0.1279
Mercury	30819-04-12 02:24 G	12977569.49	12977569.60	12977569.70	0.2665	0.0965
Mercury	30829-10-10 17:02 G	12981404.10	12981404.21	12981404.32	0.2677	0.1779
Mercury	30832-04-13 20:38 G	12982320.33	12982320.36	12982320.40	0.2668	0.2532
Mercury	30839-04-07 19:26 G	12984870.22	12984870.31	12984870.40	0.2657	0.1428
Mercury	30852-04-09 13:12 G	12989620.94	12989621.05	12989621.16	0.2660	0.0181
Mercury	30862-10-08 16:48 G	12993455.05	12993455.20	12993455.35	0.2677	0.0613
Mercury	30865-04-12 07:12 G	12994371.71	12994371.80	12994371.90	0.2666	0.1389
Mercury	30872-04-05 06:57 G	12996921.76	12996921.79	12996921.83	0.2654	0.2460
Mercury	30875-10-12 00:00 G	12998206.41	12998206.50	12998206.58	0.2677	0.2198
Mercury	30885-04-08 00:14 G	13001672.41	13001672.51	13001672.61	0.2657	0.1184
Venus	30890-02-23 12:00 G	13003454.86	13003455.00	13003455.14	0.2657	0.1252
Venus	30898-02-21 01:41 G	13006374.50	13006374.57	13006374.63	0.2653	0.2403
Mercury	30898-04-10 18:00 G	13006423.14	13006423.25	13006423.36	0.2662	0.0227
Mercury	30908-10-09 23:31 G	13010257.33	13010257.48	13010257.63	0.2677	0.0124
Mercury	30911-04-14 12:14 G	13011173.92	13011174.01	13011174.10	0.2667	0.1560
Mercury	30918-04-07 11:45 G	13013723.93	13013723.99	13013724.05	0.2654	0.2153
Mercury	30931-04-10 05:02 G	13018474.60	13018474.71	13018474.81	0.2657	0.0909
Mercury	30941-10-07 23:02 G	13022308.40	13022308.46	13022308.53	0.2676	0.2380
Mercury	30944-04-11 22:48 G	13023225.34	13023225.45	13023225.56	0.2664	0.0461
Mercury	30954-10-11 06:14 G	13027059.62	13027059.76	13027059.91	0.2677	0.0482
Mercury	30957-04-14 17:02 G	13027976.14	13027976.21	13027976.28	0.2666	0.1967
Mercury	30964-04-07 16:19 G	13030526.11	13030526.18	13030526.26	0.2655	0.1983
Mercury	30977-04-10 09:50 G	13035276.80	13035276.91	13035277.02	0.2658	0.0592
Mercury	30987-10-09 05:45 G	13039110.64	13039110.74	13039110.84	0.2676	0.1999
Mercury	30990-04-13 03:36 G	13040027.55	13040027.65	13040027.76	0.2665	0.0770
Mercury	31000-10-12 13:12 G	13043861.91	13043862.05	13043862.18	0.2678	0.1143

32ND MILLENNIUM CE

This is a list of transits visible from Moon in the 32nd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	31003-04-16 22:05 G		13044778.36	13044778.42	13044778.48	0.2667	0.2201	
Mercury	31010-04-09 21:07 G		13047328.29	13047328.38	13047328.47	0.2655	0.1602	
Venus	31011-08-28 03:50 G		13047833.56	13047833.66	13047833.76	0.2666	0.2136	
Mercury	31023-04-12 14:38 G		13052079.00	13052079.11	13052079.22	0.2660	0.0381	
Mercury	31033-10-10 12:29 G		13055912.89	13055913.02	13055913.16	0.2676	0.1227	
Mercury	31036-04-14 08:38 G		13056829.76	13056829.86	13056829.96	0.2665	0.1076	
Mercury	31043-04-08 08:38 G		13059379.85	13059379.86	13059379.87	0.2654	0.2621	
Mercury	31046-10-13 19:41 G		13060664.20	13060664.32	13060664.45	0.2678	0.1553	
Mercury	31049-04-17 03:07 G		13061580.60	13061580.63	13061580.66	0.2667	0.2558	
Mercury	31056-04-10 01:55 G		13064130.49	13064130.58	13064130.67	0.2655	0.1450	
Mercury	31069-04-12 19:26 G		13068881.20	13068881.31	13068881.42	0.2662	0.0005	
Mercury	31079-10-11 19:26 G		13072715.16	13072715.31	13072715.45	0.2677	0.0824	
Mercury	31082-04-15 13:26 G		13073631.97	13073632.06	13073632.16	0.2665	0.1333	
Mercury	31089-04-08 13:12 G		13076182.01	13076182.05	13076182.10	0.2653	0.2440	
Mercury	31092-10-14 02:09 G		13077466.52	13077466.59	13077466.67	0.2678	0.2266	
Mercury	31102-04-12 06:43 G		13080932.67	13080932.78	13080932.88	0.2656	0.1069	
Mercury	31115-04-15 00:14 G		13085683.40	13085683.51	13085683.62	0.2662	0.0161	
Mercury	31125-10-13 02:09 G		13089517.44	13089517.59	13089517.74	0.2678	0.0066	
Mercury	31128-04-16 18:29 G		13090434.19	13090434.27	13090434.36	0.2666	0.1717	
Venus	31133-02-26 03:21 G		13092210.48	13092210.64	13092210.79	0.2658	0.0295	

Mercury	31135-04-10 18:00 G	13092984.19	13092984.25	13092984.32	0.2653	0.2119
Mercury	31138-10-16 08:53 G	13094268.85	13094268.87	13094268.90	0.2677	0.2640
Mercury	31148-04-12 11:17 G	13097734.87	13097734.97	13097735.08	0.2658	0.0891
Mercury	31158-10-11 01:26 G	13101568.52	13101568.56	13101568.61	0.2676	0.2551
Mercury	31161-04-15 05:02 G	13102485.60	13102485.71	13102485.82	0.2662	0.0579
Mercury	31171-10-14 08:53 G	13106319.72	13106319.87	13106320.02	0.2678	0.0350
Mercury	31174-04-17 23:31 G	13107236.40	13107236.48	13107236.55	0.2667	0.1918
Mercury	31181-04-10 22:48 G	13109786.37	13109786.45	13109786.53	0.2654	0.1872
Mercury	31194-04-13 16:05 G	13114537.06	13114537.17	13114537.28	0.2659	0.0556
Mercury	31204-10-11 08:24 G	13118370.74	13118370.85	13118370.95	0.2677	0.1940
Mercury	31207-04-16 10:05 G	13119287.81	13119287.92	13119288.02	0.2663	0.0760
Mercury	31217-10-14 15:21 G	13123122.00	13123122.14	13123122.28	0.2678	0.1019
Mercury	31220-04-18 04:19 G	13124038.63	13124038.68	13124038.73	0.2667	0.2340
Mercury	31227-04-12 03:36 G	13126588.56	13126588.65	13126588.73	0.2655	0.1629
Mercury	31240-04-13 20:53 G	13131339.26	13131339.37	13131339.48	0.2659	0.0314
Mercury	31250-10-12 15:07 G	13135173.00	13135173.13	13135173.25	0.2678	0.1464
Mercury	31253-04-16 14:53 G	13136090.02	13136090.12	13136090.22	0.2665	0.1151
Venus	31254-08-29 01:55 G	13136589.45	13136589.58	13136589.71	0.2679	0.1409
Venus	31262-08-26 20:24 G	13139509.23	13139509.35	13139509.46	0.2678	0.1677
Mercury	31263-10-15 22:19 G	13139924.30	13139924.43	13139924.55	0.2678	0.1545
Mercury	31266-04-19 09:21 G	13140840.85	13140840.89	13140840.92	0.2667	0.2518
Mercury	31273-04-12 08:09 G	13143390.74	13143390.84	13143390.94	0.2656	0.1305
Mercury	31286-04-15 01:41 G	13148141.46	13148141.57	13148141.68	0.2660	0.0086
Mercury	31296-10-12 21:36 G	13151975.26	13151975.40	13151975.55	0.2678	0.0761
Mercury	31299-04-17 19:55 G	13152892.23	13152892.33	13152892.42	0.2666	0.1397
Mercury	31306-04-11 19:41 G	13155442.27	13155442.32	13155442.38	0.2653	0.2284
Mercury	31309-10-17 05:02 G	13156726.62	13156726.71	13156726.81	0.2677	0.2105
Mercury	31319-04-14 12:57 G	13160192.94	13160193.04	13160193.14	0.2657	0.1134
Mercury	31332-04-16 06:43 G	13164943.67	13164943.78	13164943.89	0.2661	0.0313
Mercury	31342-10-15 04:19 G	13168777.53	13168777.68	13168777.84	0.2678	0.0357

Mercury	31345-04-19 00:43 G	13169694.45	13169694.53	13169694.61	0.2666	0.1707
Mercury	31352-04-12 00:29 G	13172244.45	13172244.52	13172244.58	0.2654	0.2140
Mercury	31365-04-14 17:45 G	13176995.13	13176995.24	13176995.34	0.2657	0.0742
Venus	31376-02-28 16:33 G	13180967.06	13180967.19	13180967.32	0.2660	0.1476
Mercury	31378-04-17 11:31 G	13181745.87	13181745.98	13181746.09	0.2663	0.0524
Venus	31384-02-26 08:53 G	13183886.82	13183886.87	13183886.92	0.2655	0.2520
Mercury	31388-10-15 11:17 G	13185579.82	13185579.97	13185580.12	0.2678	0.0425
Mercury	31391-04-20 05:45 G	13186496.66	13186496.74	13186496.81	0.2666	0.2020
Mercury	31398-04-13 05:02 G	13189046.63	13189046.71	13189046.79	0.2654	0.1791
Mercury	31411-04-16 22:33 G	13193797.33	13193797.44	13193797.55	0.2657	0.0583
Mercury	31421-10-14 10:19 G	13197630.84	13197630.93	13197631.03	0.2677	0.2034
Mercury	31424-04-18 16:19 G	13198548.08	13198548.18	13198548.28	0.2664	0.0918
Mercury	31434-10-17 18:14 G	13202382.11	13202382.26	13202382.40	0.2678	0.0828
Mercury	31437-04-21 10:33 G	13203298.89	13203298.94	13203299.00	0.2666	0.2286
Mercury	31444-04-14 09:50 G	13205848.82	13205848.91	13205849.00	0.2654	0.1603
Mercury	31457-04-17 03:21 G	13210599.53	13210599.64	13210599.75	0.2659	0.0201
Mercury	31467-10-15 17:17 G	13214433.10	13214433.22	13214433.35	0.2677	0.1554
Mercury	31470-04-19 21:07 G	13215350.28	13215350.38	13215350.48	0.2664	0.1085
Mercury	31477-04-12 21:21 G	13217900.36	13217900.39	13217900.42	0.2653	0.2549
Mercury	31480-10-18 00:57 G	13219184.41	13219184.54	13219184.66	0.2679	0.1579
Mercury	31490-04-15 14:38 G	13222651.01	13222651.11	13222651.21	0.2654	0.1269
Venus	31497-08-31 07:12 G	13225345.66	13225345.80	13225345.93	0.2669	0.1596
Mercury	31503-04-19 08:09 G	13227401.73	13227401.84	13227401.95	0.2661	0.0049
Mercury	31513-10-17 00:14 G	13231235.37	13231235.51	13231235.65	0.2678	0.0906
Mercury	31516-04-21 02:09 G	13232152.50	13232152.59	13232152.68	0.2664	0.1503
Mercury	31523-04-15 02:09 G	13234702.54	13234702.59	13234702.64	0.2653	0.2340
Mercury	31526-10-20 07:26 G	13235986.71	13235986.81	13235986.91	0.2679	0.1971
Mercury	31536-04-16 19:26 G	13239453.20	13239453.31	13239453.41	0.2656	0.1025
Mercury	31549-04-19 12:57 G	13244203.93	13244204.04	13244204.15	0.2662	0.0352
Mercury	31559-10-18 06:57 G	13248037.64	13248037.79	13248037.95	0.2679	0.0298

Mercury	31562-04-22 07:12 G	13248954.71	13248954.80	13248954.88	0.2665	0.1710
Mercury	31569-04-15 06:43 G	13251504.71	13251504.78	13251504.86	0.2653	0.1992
Mercury	31572-10-20 14:09 G	13252789.07	13252789.09	13252789.11	0.2678	0.2637
Mercury	31582-04-18 00:00 G	13256255.40	13256255.50	13256255.61	0.2658	0.0783
Mercury	31595-04-20 17:45 G	13261006.13	13261006.24	13261006.35	0.2662	0.0586
Mercury	31605-10-18 13:41 G	13264839.92	13264840.07	13264840.22	0.2679	0.0182
Mercury	31608-04-22 12:00 G	13265756.94	13265757.00	13265757.07	0.2666	0.2098
Mercury	31615-04-16 11:31 G	13268306.90	13268306.98	13268307.06	0.2653	0.1823
Venus	31619-03-02 09:07 G	13269722.72	13269722.88	13269723.04	0.2655	0.0228
Mercury	31628-04-18 04:48 G	13273057.59	13273057.70	13273057.81	0.2659	0.0438
Mercury	31638-10-16 12:57 G	13276890.96	13276891.04	13276891.12	0.2678	0.2284
Mercury	31641-04-20 22:33 G	13277808.34	13277808.44	13277808.55	0.2662	0.0905
Mercury	31651-10-19 20:24 G	13281642.20	13281642.35	13281642.49	0.2679	0.0877
Mercury	31654-04-23 17:02 G	13282559.16	13282559.21	13282559.26	0.2667	0.2342
Mercury	31661-04-16 16:19 G	13285109.09	13285109.18	13285109.27	0.2654	0.1452
Mercury	31674-04-19 09:36 G	13289859.79	13289859.90	13289860.01	0.2659	0.0259
Mercury	31684-10-16 19:41 G	13293693.19	13293693.32	13293693.44	0.2679	0.1507
Mercury	31687-04-22 03:36 G	13294610.55	13294610.65	13294610.75	0.2664	0.1233
Mercury	31694-04-15 03:50 G	13297160.62	13297160.66	13297160.70	0.2652	0.2458
Mercury	31697-10-20 03:07 G	13298444.50	13298444.63	13298444.77	0.2678	0.1307
Mercury	31700-04-24 21:50 G	13299361.41	13299361.41	13299361.41	0.2666	0.2663
Mercury	31707-04-18 20:53 G	13301911.28	13301911.37	13301911.47	0.2656	0.1306
Mercury	31720-04-20 14:24 G	13306661.99	13306662.10	13306662.21	0.2659	0.0142
Mercury	31730-10-19 02:24 G	13310495.46	13310495.60	13310495.74	0.2679	0.1128
Mercury	31733-04-23 08:38 G	13311412.77	13311412.86	13311412.95	0.2665	0.1458
Mercury	31740-04-16 08:38 G	13313962.80	13313962.86	13313962.91	0.2652	0.2273
Venus	31740-09-01 21:50 G	13314101.27	13314101.41	13314101.56	0.2677	0.0910
Mercury	31743-10-22 10:05 G	13315246.83	13315246.92	13315247.01	0.2678	0.2077
Mercury	31753-04-19 01:41 G	13318713.46	13318713.57	13318713.67	0.2656	0.0939
Mercury	31766-04-21 19:26 G	13323464.20	13323464.31	13323464.42	0.2660	0.0325

Mercury	31776-10-19 09:07 G	13327297.73	13327297.88	13327298.03	0.2679	0.0380
Mercury	31779-04-24 13:26 G	13328214.98	13328215.06	13328215.14	0.2665	0.1850
Mercury	31786-04-17 13:12 G	13330764.98	13330765.05	13330765.12	0.2653	0.1985
Mercury	31789-10-22 16:48 G	13332049.15	13332049.20	13332049.26	0.2678	0.2450
Mercury	31799-04-20 06:29 G	13335515.66	13335515.77	13335515.87	0.2656	0.0756
Mercury	31812-04-23 00:14 G	13340266.40	13340266.51	13340266.61	0.2662	0.0717
Mercury	31822-10-21 16:05 G	13344100.02	13344100.17	13344100.33	0.2679	0.0152
Mercury	31825-04-25 18:14 G	13345017.19	13345017.26	13345017.33	0.2665	0.2033
Mercury	31832-04-18 17:45 G	13347567.16	13347567.24	13347567.33	0.2654	0.1717
Mercury	31845-04-21 11:17 G	13352317.86	13352317.97	13352318.08	0.2657	0.0405
Mercury	31855-10-19 14:53 G	13356151.04	13356151.12	13356151.20	0.2678	0.2285
Mercury	31858-04-24 05:02 G	13357068.61	13357068.71	13357068.81	0.2663	0.0903
Venus	31862-03-04 19:26 G	13358479.17	13358479.31	13358479.45	0.2663	0.1020
Mercury	31868-10-21 23:02 G	13360902.31	13360902.46	13360902.61	0.2679	0.0753
Mercury	31871-04-26 23:17 G	13361819.43	13361819.47	13361819.51	0.2665	0.2451
Mercury	31878-04-19 22:33 G	13364369.35	13364369.44	13364369.53	0.2654	0.1502
Mercury	31891-04-22 16:05 G	13369120.06	13369120.17	13369120.28	0.2659	0.0149
Mercury	31901-10-20 21:50 G	13372953.30	13372953.41	13372953.52	0.2679	0.1793
Mercury	31904-04-25 09:50 G	13373870.82	13373870.91	13373871.01	0.2664	0.1273
Mercury	31911-04-19 10:19 G	13376420.89	13376420.93	13376420.96	0.2652	0.2514
Mercury	31914-10-24 05:45 G	13377704.61	13377704.74	13377704.87	0.2679	0.1346
Mercury	31917-04-28 04:19 G	13378621.68	13378621.68	13378621.68	0.2665	0.2665
Mercury	31924-04-21 03:21 G	13381171.54	13381171.64	13381171.74	0.2654	0.1150
Mercury	31937-04-23 20:53 G	13385922.26	13385922.37	13385922.48	0.2661	0.0106
Mercury	31947-10-22 04:48 G	13389755.56	13389755.70	13389755.84	0.2679	0.1026
Mercury	31950-04-26 14:53 G	13390673.03	13390673.12	13390673.21	0.2664	0.1516
Mercury	31957-04-19 14:53 G	13393223.06	13393223.12	13393223.18	0.2652	0.2149
Mercury	31960-10-24 12:14 G	13394506.90	13394507.01	13394507.13	0.2679	0.1826
Mercury	31970-04-22 08:09 G	13397973.74	13397973.84	13397973.94	0.2655	0.0978
Mercury	31983-04-25 01:41 G	13402724.46	13402724.57	13402724.68	0.2661	0.0452

Venus	31983-09-05 08:24 G	13402857.70	13402857.85	13402857.99	0.2672	0.1128
Venus	31991-09-02 19:26 G	13405777.26	13405777.31	13405777.35	0.2667	0.2562
Mercury	31993-10-22 11:45 G	13406557.84	13406557.99	13406558.14	0.2680	0.0623
Mercury	31996-04-26 19:41 G	13407475.25	13407475.32	13407475.40	0.2664	0.1838

33RD MILLENNIUM CE

This is a list of transits visible from Moon in the 33rd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	32003-04-20 19:41 G		13410025.25	13410025.32	13410025.39	0.2652	0.1996	
Mercury	32006-10-25 19:12 G		13411309.25	13411309.30	13411309.35	0.2678	0.2514	
Mercury	32016-04-22 12:57 G		13414775.93	13414776.04	13414776.14	0.2657	0.0603	
Mercury	32029-04-25 06:29 G		13419526.66	13419526.77	13419526.88	0.2661	0.0648	
Mercury	32039-10-23 18:14 G		13423360.11	13423360.26	13423360.42	0.2680	0.0173	
Mercury	32042-04-28 00:43 G		13424277.47	13424277.53	13424277.59	0.2665	0.2177	
Mercury	32049-04-21 00:14 G		13426827.43	13426827.51	13426827.60	0.2652	0.1629	
Mercury	32062-04-23 17:31 G		13431578.13	13431578.23	13431578.34	0.2658	0.0455	
Mercury	32072-10-20 17:17 G		13435411.16	13435411.22	13435411.29	0.2679	0.2374	
Mercury	32075-04-26 11:17 G		13436328.87	13436328.97	13436329.08	0.2662	0.1050	
Mercury	32085-10-24 01:12 G		13440162.40	13440162.55	13440162.70	0.2680	0.0536	
Mercury	32088-04-28 05:31 G		13441079.69	13441079.73	13441079.78	0.2666	0.2400	
Mercury	32095-04-22 05:02 G		13443629.62	13443629.71	13443629.80	0.2654	0.1438	
Venus	32105-03-06 17:31 G		13447235.07	13447235.23	13447235.39	0.2652	0.0570	
Mercury	32108-04-24 22:19 G		13448380.32	13448380.43	13448380.54	0.2658	0.0079	

Mercury	32118-10-23 00:14 G	13452213.40	13452213.51	13452213.62	0.2680	0.1828
Mercury	32121-04-27 16:19 G	13453131.08	13453131.18	13453131.28	0.2663	0.1233
Mercury	32128-04-20 16:48 G	13455681.15	13455681.20	13455681.24	0.2651	0.2383
Mercury	32131-10-26 07:55 G	13456964.70	13456964.83	13456964.97	0.2679	0.1281
Mercury	32141-04-23 09:50 G	13460431.81	13460431.91	13460432.01	0.2655	0.1157
Mercury	32154-04-26 03:07 G	13465182.52	13465182.63	13465182.74	0.2659	0.0145
Mercury	32164-10-23 06:57 G	13469015.65	13469015.79	13469015.92	0.2680	0.1259
Mercury	32167-04-28 21:07 G	13469933.30	13469933.38	13469933.47	0.2664	0.1643
Mercury	32174-04-21 21:21 G	13472483.33	13472483.39	13472483.45	0.2652	0.2170
Mercury	32177-10-26 14:53 G	13473767.01	13473767.12	13473767.24	0.2678	0.1786
Mercury	32187-04-24 14:24 G	13477234.00	13477234.10	13477234.21	0.2656	0.0872
Mercury	32200-04-27 08:09 G	13481984.73	13481984.84	13481984.94	0.2660	0.0491
Mercury	32210-10-25 13:41 G	13485817.92	13485818.07	13485818.22	0.2680	0.0618
Mercury	32213-04-30 02:09 G	13486735.51	13486735.59	13486735.67	0.2665	0.1826
Mercury	32220-04-23 02:09 G	13489285.51	13489285.59	13489285.66	0.2652	0.1841
Mercury	32223-10-28 21:36 G	13490569.34	13490569.40	13490569.47	0.2678	0.2389
Venus	32226-09-06 19:55 G	13491613.17	13491613.33	13491613.49	0.2673	0.0189
Mercury	32233-04-25 19:12 G	13494036.19	13494036.30	13494036.41	0.2656	0.0641
Mercury	32246-04-28 12:57 G	13498786.93	13498787.04	13498787.14	0.2662	0.0756
Mercury	32256-10-25 20:53 G	13502620.21	13502620.37	13502620.52	0.2680	0.0138
Mercury	32259-05-01 06:57 G	13503537.73	13503537.79	13503537.85	0.2665	0.2207
Mercury	32266-04-24 06:43 G	13506087.70	13506087.78	13506087.86	0.2653	0.1693
Mercury	32279-04-27 00:00 G	13510838.39	13510838.50	13510838.61	0.2656	0.0296
Mercury	32289-10-23 19:12 G	13514671.30	13514671.30	13514671.31	0.2680	0.2675
Mercury	32292-04-28 17:45 G	13515589.14	13515589.24	13515589.34	0.2663	0.1015
Mercury	32299-04-22 18:29 G	13518139.27	13518139.27	13518139.27	0.2651	0.2651
Mercury	32302-10-28 03:36 G	13519422.50	13519422.65	13519422.80	0.2680	0.0643
Mercury	32305-05-02 12:00 G	13520339.96	13520340.00	13520340.04	0.2665	0.2466
Mercury	32312-04-25 11:31 G	13522889.88	13522889.98	13522890.07	0.2653	0.1315
Mercury	32325-04-28 04:48 G	13527640.59	13527640.70	13527640.81	0.2658	0.0116

Mercury	32335-10-26 02:09 G	13531473.48	13531473.59	13531473.70	0.2680	0.1869
Mercury	32338-04-30 22:33 G	13532391.35	13532391.44	13532391.54	0.2663	0.1355
Mercury	32345-04-23 23:02 G	13534941.41	13534941.46	13534941.51	0.2652	0.2328
Venus	32348-03-08 20:38 G	13535991.21	13535991.36	13535991.50	0.2664	0.0247
Mercury	32348-10-28 10:19 G	13536224.79	13536224.93	13536225.08	0.2680	0.1020
Venus	32356-03-06 17:02 G	13538911.20	13538911.21	13538911.22	0.2663	0.2652
Mercury	32358-04-26 16:05 G	13539692.08	13539692.17	13539692.27	0.2653	0.1162
Mercury	32371-04-29 09:36 G	13544442.79	13544442.90	13544443.01	0.2660	0.0282
Mercury	32381-10-26 09:21 G	13548275.76	13548275.89	13548276.02	0.2680	0.1401
Mercury	32384-05-01 03:36 G	13549193.56	13549193.65	13549193.74	0.2663	0.1572
Mercury	32391-04-25 03:50 G	13551743.59	13551743.66	13551743.72	0.2651	0.2122
Mercury	32394-10-29 17:02 G	13553027.10	13553027.21	13553027.32	0.2680	0.1792
Mercury	32404-04-26 20:53 G	13556494.27	13556494.37	13556494.48	0.2654	0.0787
Mercury	32417-04-29 14:24 G	13561244.99	13561245.10	13561245.21	0.2660	0.0436
Mercury	32427-10-27 16:05 G	13565078.03	13565078.17	13565078.32	0.2681	0.0700
Mercury	32430-05-02 08:24 G	13565995.78	13565995.85	13565995.93	0.2664	0.1978
Mercury	32437-04-25 08:24 G	13568545.78	13568545.85	13568545.93	0.2651	0.1845
Mercury	32440-10-30 00:00 G	13569829.41	13569829.50	13569829.58	0.2679	0.2177
Mercury	32450-04-28 01:41 G	13573296.46	13573296.57	13573296.68	0.2656	0.0592
Mercury	32463-04-30 19:12 G	13578047.20	13578047.30	13578047.41	0.2660	0.0837
Venus	32469-09-08 07:12 G	13580369.65	13580369.80	13580369.95	0.2676	0.0901
Mercury	32473-10-27 22:48 G	13581880.30	13581880.45	13581880.61	0.2681	0.0191
Mercury	32476-05-02 13:26 G	13582798.00	13582798.06	13582798.12	0.2665	0.2167
Mercury	32483-04-26 13:12 G	13585347.96	13585348.05	13585348.14	0.2652	0.1560
Mercury	32496-04-28 06:29 G	13590098.66	13590098.77	13590098.88	0.2658	0.0308
Mercury	32506-10-26 21:36 G	13593931.36	13593931.40	13593931.44	0.2680	0.2583
Mercury	32509-05-02 00:14 G	13594849.41	13594849.51	13594849.61	0.2661	0.1032
Mercury	32516-04-25 00:57 G	13597399.50	13597399.54	13597399.57	0.2651	0.2514
Mercury	32519-10-30 05:45 G	13598682.58	13598682.74	13598682.89	0.2680	0.0413
Mercury	32522-05-04 18:14 G	13599600.24	13599600.26	13599600.29	0.2665	0.2578

Mercury	32529-04-27 18:00 G	13602150.15	13602150.25	13602150.34	0.2653	0.1351
Mercury	32542-04-30 11:17 G	13606900.86	13606900.97	13606901.08	0.2658	0.0094
Mercury	32552-10-27 04:19 G	13610733.59	13610733.68	13610733.77	0.2681	0.2172
Mercury	32555-05-03 05:02 G	13611651.62	13611651.71	13611651.81	0.2663	0.1396
Mercury	32562-04-26 05:31 G	13614201.69	13614201.73	13614201.78	0.2650	0.2365
Mercury	32565-10-30 12:29 G	13615484.88	13615485.02	13615485.17	0.2679	0.1059
Mercury	32575-04-28 22:33 G	13618952.34	13618952.44	13618952.54	0.2654	0.1009
Mercury	32588-04-30 16:05 G	13623703.06	13623703.17	13623703.28	0.2658	0.0250
Venus	32591-03-11 03:07 G	13624747.48	13624747.63	13624747.77	0.2653	0.1227
Mercury	32598-10-28 11:02 G	13627535.83	13627535.96	13627536.09	0.2681	0.1391
Mercury	32601-05-04 10:05 G	13628453.83	13628453.92	13628454.00	0.2664	0.1674
Mercury	32608-04-27 10:19 G	13631003.86	13631003.93	13631004.00	0.2651	0.1990
Mercury	32611-11-01 19:41 G	13632287.19	13632287.32	13632287.44	0.2679	0.1531
Mercury	32621-04-30 03:21 G	13635754.53	13635754.64	13635754.74	0.2655	0.0862
Mercury	32634-05-02 20:53 G	13640505.26	13640505.37	13640505.48	0.2659	0.0583
Mercury	32644-10-29 18:00 G	13644338.11	13644338.25	13644338.39	0.2681	0.0996
Mercury	32647-05-05 14:53 G	13645256.04	13645256.12	13645256.19	0.2664	0.1942
Mercury	32654-04-28 14:53 G	13647806.04	13647806.12	13647806.20	0.2652	0.1839
Mercury	32657-11-02 02:09 G	13649089.51	13649089.59	13649089.67	0.2679	0.2275
Mercury	32667-05-01 07:55 G	13652556.73	13652556.83	13652556.94	0.2655	0.0477
Mercury	32680-05-03 01:41 G	13657307.47	13657307.57	13657307.68	0.2661	0.0781
Mercury	32690-10-31 01:12 G	13661140.39	13661140.55	13661140.70	0.2680	0.0188
Mercury	32693-05-05 19:41 G	13662058.27	13662058.32	13662058.38	0.2664	0.2273
Mercury	32700-04-29 19:26 G	13664608.22	13664608.31	13664608.40	0.2653	0.1516
Mercury	32703-11-04 08:53 G	13665891.85	13665891.87	13665891.90	0.2679	0.2632
Venus	32712-09-10 20:24 G	13669125.19	13669125.35	13669125.51	0.2670	0.0660
Mercury	32713-05-02 12:57 G	13669358.93	13669359.04	13669359.15	0.2656	0.0317
Mercury	32726-05-05 06:29 G	13674109.68	13674109.77	13674109.87	0.2662	0.1184
Mercury	32733-04-28 07:26 G	13676659.78	13676659.81	13676659.84	0.2651	0.2508
Mercury	32736-11-01 08:09 G	13677942.69	13677942.84	13677942.99	0.2680	0.0270

Mercury	32739-05-08 00:43 G	13678860.49	13678860.53	13678860.56	0.2664	0.2506
Mercury	32746-05-01 00:14 G	13681410.42	13681410.51	13681410.61	0.2653	0.1301
Mercury	32759-05-03 17:45 G	13686161.13	13686161.24	13686161.35	0.2657	0.0133
Mercury	32769-10-30 06:14 G	13689993.68	13689993.76	13689993.85	0.2680	0.2214
Mercury	32772-05-05 11:17 G	13690911.88	13690911.97	13690912.07	0.2662	0.1342
Mercury	32779-04-29 12:00 G	13693461.94	13693462.00	13693462.06	0.2651	0.2238
Mercury	32782-11-02 14:53 G	13694744.98	13694745.12	13694745.26	0.2680	0.0964
Mercury	32792-05-01 05:02 G	13698212.61	13698212.71	13698212.81	0.2653	0.1002
Mercury	32805-05-03 22:33 G	13702963.33	13702963.44	13702963.55	0.2659	0.0295
Mercury	32815-10-31 13:26 G	13706795.94	13706796.06	13706796.18	0.2681	0.1637
Mercury	32818-05-06 16:19 G	13707714.09	13707714.18	13707714.26	0.2662	0.1747
Mercury	32825-04-29 16:33 G	13710264.13	13710264.19	13710264.26	0.2651	0.2056
Mercury	32828-11-02 21:36 G	13711547.27	13711547.40	13711547.53	0.2680	0.1441
Venus	32834-03-12 22:05 G	13713503.27	13713503.42	13713503.57	0.2662	0.0046
Mercury	32838-05-02 09:50 G	13715014.80	13715014.91	13715015.01	0.2654	0.0729
Mercury	32851-05-05 03:07 G	13719765.53	13719765.63	13719765.74	0.2660	0.0601
Mercury	32861-10-31 20:24 G	13723598.20	13723598.35	13723598.50	0.2681	0.0907
Mercury	32864-05-06 21:07 G	13724516.31	13724516.38	13724516.46	0.2663	0.1959
Mercury	32871-04-30 21:21 G	13727066.31	13727066.39	13727066.47	0.2651	0.1695
Mercury	32874-11-04 04:19 G	13728349.58	13728349.68	13728349.78	0.2679	0.2044
Mercury	32884-05-02 14:38 G	13731817.00	13731817.11	13731817.21	0.2656	0.0521
Mercury	32897-05-05 07:55 G	13736567.73	13736567.83	13736567.94	0.2660	0.0869
Mercury	32907-11-03 03:07 G	13740400.48	13740400.63	13740400.78	0.2681	0.0508
Mercury	32910-05-09 02:09 G	13741318.54	13741318.59	13741318.64	0.2664	0.2318
Mercury	32917-05-02 02:09 G	13743868.50	13743868.59	13743868.68	0.2651	0.1541
Mercury	32930-05-04 19:12 G	13748619.19	13748619.30	13748619.41	0.2657	0.0161
Mercury	32943-05-07 12:57 G	13753369.94	13753370.04	13753370.14	0.2660	0.1139
Mercury	32950-04-30 13:41 G	13755920.04	13755920.07	13755920.10	0.2650	0.2520
Mercury	32953-11-03 09:50 G	13757202.76	13757202.91	13757203.06	0.2681	0.0267
Venus	32955-09-13 03:36 G	13757881.50	13757881.65	13757881.80	0.2679	0.0404

Mercury	32956-05-09 06:57 G	13758120.77	13758120.79	13758120.82	0.2664	0.2588
Mercury	32963-05-03 06:43 G	13760670.68	13760670.78	13760670.88	0.2652	0.1171
Mercury	32976-05-05 00:00 G	13765421.39	13765421.50	13765421.61	0.2657	0.0009
Mercury	32986-11-01 08:24 G	13769253.77	13769253.85	13769253.93	0.2682	0.2256
Mercury	32989-05-07 17:45 G	13770172.15	13770172.24	13770172.33	0.2662	0.1488
Mercury	32996-04-30 18:29 G	13772722.21	13772722.27	13772722.33	0.2650	0.2177
Mercury	32999-11-04 16:48 G	13774005.05	13774005.20	13774005.35	0.2680	0.0676

34TH MILLENNIUM CE

This is a list of transits visible from Moon in the 34th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	33009-05-04 11:31 G		13777472.88	13777472.98	13777473.08	0.2654	0.1021	
Mercury	33022-05-07 04:48 G		13782223.59	13782223.70	13782223.81	0.2657	0.0401	
Mercury	33032-11-02 15:21 G		13786056.02	13786056.14	13786056.25	0.2682	0.1812	
Mercury	33035-05-09 22:48 G		13786974.36	13786974.45	13786974.53	0.2663	0.1689	
Mercury	33042-05-02 23:17 G		13789524.40	13789524.47	13789524.54	0.2650	0.1968	
Mercury	33045-11-05 23:45 G		13790807.37	13790807.49	13790807.62	0.2679	0.1478	
Mercury	33055-05-05 16:05 G		13794275.07	13794275.17	13794275.28	0.2654	0.0675	
Mercury	33068-05-07 09:36 G		13799025.80	13799025.90	13799026.01	0.2658	0.0570	
Venus	33077-03-15 10:19 G		13802259.79	13802259.93	13802260.08	0.2657	0.1108	
Mercury	33078-11-03 22:05 G		13802858.28	13802858.42	13802858.56	0.2681	0.1124	
Mercury	33081-05-10 03:36 G		13803776.58	13803776.65	13803776.71	0.2663	0.2086	
Mercury	33088-05-03 03:50 G		13806326.58	13806326.66	13806326.74	0.2651	0.1704	

Mercury	33091-11-07 06:43 G	13807609.67	13807609.78	13807609.89	0.2679	0.1883
Mercury	33101-05-06 20:53 G	13811077.26	13811077.37	13811077.48	0.2654	0.0469
Mercury	33114-05-09 14:24 G	13815828.00	13815828.10	13815828.21	0.2660	0.0963
Mercury	33124-11-05 05:17 G	13819660.56	13819660.72	13819660.87	0.2681	0.0520
Mercury	33127-05-12 08:24 G	13820578.80	13820578.85	13820578.91	0.2663	0.2256
Mercury	33134-05-05 08:24 G	13823128.76	13823128.85	13823128.94	0.2652	0.1424
Mercury	33137-11-08 13:12 G	13824412.02	13824412.05	13824412.09	0.2679	0.2583
Mercury	33147-05-08 01:41 G	13827879.46	13827879.57	13827879.68	0.2655	0.0150
Mercury	33160-05-09 19:26 G	13832630.21	13832630.31	13832630.41	0.2661	0.1164
Mercury	33167-05-03 20:24 G	13835180.30	13835180.35	13835180.40	0.2650	0.2361
Mercury	33170-11-06 12:14 G	13836462.85	13836463.01	13836463.16	0.2681	0.0034
Mercury	33180-05-05 13:12 G	13839930.95	13839931.05	13839931.15	0.2652	0.1235
Mercury	33193-05-08 06:29 G	13844681.66	13844681.77	13844681.88	0.2657	0.0121
Venus	33198-09-14 23:17 G	13846637.31	13846637.47	13846637.63	0.2667	0.0886
Mercury	33203-11-04 10:05 G	13848513.89	13848513.92	13848513.96	0.2681	0.2600
Mercury	33206-05-11 00:14 G	13849432.42	13849432.51	13849432.60	0.2662	0.1500
Mercury	33213-05-04 00:57 G	13851982.48	13851982.54	13851982.60	0.2650	0.2222
Mercury	33216-11-06 18:57 G	13853265.14	13853265.29	13853265.44	0.2681	0.0733
Mercury	33226-05-06 18:00 G	13856733.14	13856733.25	13856733.35	0.2652	0.0877
Mercury	33239-05-09 11:17 G	13861483.86	13861483.97	13861484.08	0.2658	0.0351
Mercury	33249-11-04 17:17 G	13865316.10	13865316.22	13865316.34	0.2681	0.1777
Mercury	33252-05-11 05:02 G	13866234.63	13866234.71	13866234.79	0.2661	0.1758
Mercury	33259-05-05 05:31 G	13868784.65	13868784.73	13868784.81	0.2650	0.1869
Mercury	33262-11-08 01:41 G	13870067.43	13870067.57	13870067.71	0.2681	0.1141
Mercury	33272-05-06 22:33 G	13873535.34	13873535.44	13873535.55	0.2653	0.0721
Mercury	33285-05-09 16:05 G	13878286.06	13878286.17	13878286.27	0.2659	0.0710
Mercury	33295-11-06 00:14 G	13882118.38	13882118.51	13882118.65	0.2682	0.1359
Mercury	33298-05-12 10:05 G	13883036.85	13883036.92	13883036.98	0.2662	0.2051
Mercury	33305-05-06 10:19 G	13885586.84	13885586.93	13885587.01	0.2650	0.1714
Mercury	33308-11-09 08:38 G	13886869.75	13886869.86	13886869.96	0.2680	0.1910

Mercury	33318-05-09 03:21 G	13890337.53	13890337.64	13890337.75	0.2655	0.0338
Venus	33320-03-17 01:55 G	13891015.42	13891015.58	13891015.73	0.2658	0.0360
Mercury	33331-05-11 20:53 G	13895088.27	13895088.37	13895088.47	0.2659	0.0884
Mercury	33338-05-04 22:05 G	13897638.41	13897638.42	13897638.43	0.2650	0.2635
Mercury	33341-11-07 07:12 G	13898920.65	13898920.80	13898920.95	0.2682	0.0587
Mercury	33344-05-13 14:53 G	13899839.08	13899839.12	13899839.17	0.2663	0.2406
Mercury	33351-05-07 14:53 G	13902389.03	13902389.12	13902389.22	0.2650	0.1364
Mercury	33354-11-10 15:36 G	13903672.07	13903672.15	13903672.22	0.2678	0.2302
Mercury	33364-05-09 08:09 G	13907139.73	13907139.84	13907139.95	0.2656	0.0190
Mercury	33377-05-12 01:41 G	13911890.48	13911890.57	13911890.67	0.2660	0.1281
Mercury	33384-05-05 02:38 G	13914440.57	13914440.61	13914440.66	0.2649	0.2398
Mercury	33387-11-08 13:55 G	13915722.93	13915723.08	13915723.24	0.2681	0.0165
Mercury	33390-05-14 19:41 G	13916641.31	13916641.32	13916641.34	0.2664	0.2606
Mercury	33397-05-07 19:41 G	13919191.22	13919191.32	13919191.42	0.2652	0.1156
Mercury	33410-05-11 12:57 G	13923941.93	13923942.04	13923942.15	0.2656	0.0205
Mercury	33420-11-06 12:14 G	13927773.97	13927774.01	13927774.05	0.2682	0.2594
Mercury	33423-05-14 06:43 G	13928692.69	13928692.78	13928692.87	0.2661	0.1468
Mercury	33430-05-07 07:26 G	13931242.74	13931242.81	13931242.88	0.2649	0.2090
Mercury	33433-11-09 20:53 G	13932525.22	13932525.37	13932525.53	0.2680	0.0549
Venus	33441-09-16 22:19 G	13935393.29	13935393.43	13935393.57	0.2679	0.0849
Mercury	33443-05-10 00:29 G	13935993.41	13935993.52	13935993.62	0.2653	0.0901
Mercury	33456-05-11 17:45 G	13940744.13	13940744.24	13940744.35	0.2657	0.0391
Mercury	33466-11-07 18:57 G	13944576.20	13944576.29	13944576.39	0.2682	0.2107
Mercury	33469-05-14 11:31 G	13945494.90	13945494.98	13945495.06	0.2662	0.1864
Mercury	33476-05-07 12:14 G	13948044.93	13948045.01	13948045.08	0.2650	0.1904
Mercury	33479-11-11 04:05 G	13949327.53	13949327.67	13949327.81	0.2680	0.1147
Mercury	33489-05-10 05:02 G	13952795.60	13952795.71	13952795.82	0.2654	0.0598
Mercury	33502-05-13 22:33 G	13957546.33	13957546.44	13957546.54	0.2658	0.0721
Mercury	33512-11-09 01:55 G	13961378.45	13961378.58	13961378.72	0.2682	0.1361
Mercury	33515-05-16 16:19 G	13962297.11	13962297.18	13962297.25	0.2663	0.2060

Mercury	33522-05-09 16:48 G	13964847.11	13964847.20	13964847.29	0.2650	0.1562
Mercury	33525-11-12 10:48 G	13966129.83	13966129.95	13966130.07	0.2680	0.1668
Mercury	33535-05-12 09:50 G	13969597.80	13969597.91	13969598.02	0.2654	0.0396
Mercury	33548-05-14 03:21 G	13974348.54	13974348.64	13974348.74	0.2660	0.1000
Mercury	33555-05-08 04:33 G	13976898.66	13976898.69	13976898.72	0.2649	0.2524
Mercury	33558-11-10 09:07 G	13978180.74	13978180.88	13978181.03	0.2681	0.0904
Mercury	33561-05-16 21:07 G	13979099.34	13979099.38	13979099.43	0.2662	0.2413
Venus	33563-03-20 15:07 G	13979771.99	13979772.13	13979772.28	0.2661	0.0879
Mercury	33568-05-09 21:21 G	13981649.30	13981649.39	13981649.48	0.2651	0.1423
Venus	33571-03-18 07:41 G	13982691.73	13982691.82	13982691.91	0.2656	0.2166
Mercury	33571-11-13 17:31 G	13982932.15	13982932.23	13982932.30	0.2680	0.2331
Mercury	33581-05-12 14:38 G	13986400.00	13986400.11	13986400.22	0.2654	0.0058
Mercury	33594-05-15 08:09 G	13991150.75	13991150.84	13991150.94	0.2661	0.1239
Mercury	33601-05-08 09:21 G	13993700.84	13993700.89	13993700.94	0.2649	0.2368
Mercury	33604-11-10 16:05 G	13994983.02	13994983.17	13994983.33	0.2681	0.0098
Mercury	33614-05-11 02:09 G	13998451.49	13998451.59	13998451.69	0.2651	0.1052
Mercury	33627-05-13 19:26 G	14003202.20	14003202.31	14003202.42	0.2656	0.0150
Mercury	33640-05-15 12:57 G	14007952.95	14007953.04	14007953.13	0.2661	0.1591
Mercury	33647-05-09 13:55 G	14010503.01	14010503.08	14010503.15	0.2650	0.2058
Mercury	33650-11-11 23:02 G	14011785.31	14011785.46	14011785.62	0.2681	0.0297
Mercury	33660-05-11 06:57 G	14015253.68	14015253.79	14015253.89	0.2651	0.0901
Mercury	33673-05-14 00:14 G	14020004.40	14020004.51	14020004.61	0.2658	0.0536
Mercury	33683-11-09 21:07 G	14023836.29	14023836.38	14023836.47	0.2682	0.2184
Venus	33684-09-18 02:38 G	14024149.45	14024149.61	14024149.78	0.2667	0.0480
Mercury	33686-05-16 17:45 G	14024755.16	14024755.24	14024755.32	0.2661	0.1789
Mercury	33693-05-09 18:29 G	14027305.20	14027305.27	14027305.35	0.2650	0.1836
Mercury	33696-11-12 05:45 G	14028587.60	14028587.74	14028587.88	0.2681	0.1065
Mercury	33706-05-13 11:31 G	14032055.88	14032055.98	14032056.09	0.2652	0.0538
Mercury	33719-05-16 04:48 G	14036806.60	14036806.70	14036806.81	0.2659	0.0687
Mercury	33729-11-11 04:05 G	14040638.55	14040638.67	14040638.80	0.2682	0.1554

Mercury	33732-05-17 22:48 G	14041557.39	14041557.45	14041557.51	0.2662	0.2187
Mercury	33739-05-11 23:17 G	14044107.38	14044107.47	14044107.56	0.2650	0.1584
Mercury	33742-11-14 12:43 G	14045389.90	14045390.03	14045390.16	0.2680	0.1497
Mercury	33752-05-13 16:19 G	14048858.07	14048858.18	14048858.29	0.2654	0.0325
Mercury	33765-05-16 09:50 G	14053608.81	14053608.91	14053609.01	0.2659	0.1072
Mercury	33772-05-09 11:02 G	14056158.94	14056158.96	14056158.98	0.2649	0.2587
Mercury	33775-11-12 11:02 G	14057440.81	14057440.96	14057441.10	0.2682	0.0936
Mercury	33778-05-19 03:50 G	14058359.61	14058359.66	14058359.70	0.2662	0.2378
Mercury	33785-05-12 04:05 G	14060909.57	14060909.67	14060909.76	0.2650	0.1288
Mercury	33788-11-14 19:41 G	14062192.23	14062192.32	14062192.41	0.2678	0.2179
Mercury	33798-05-14 21:07 G	14065660.27	14065660.38	14065660.49	0.2656	0.0112
Venus	33806-03-22 08:24 G	14068527.69	14068527.85	14068528.01	0.2655	0.0524
Mercury	33811-05-18 14:38 G	14070411.01	14070411.11	14070411.20	0.2659	0.1266
Mercury	33818-05-11 15:50 G	14072961.10	14072961.16	14072961.21	0.2649	0.2239
Mercury	33821-11-13 17:45 G	14074243.09	14074243.24	14074243.40	0.2682	0.0425
Mercury	33831-05-14 08:38 G	14077711.76	14077711.86	14077711.96	0.2651	0.1095
Mercury	33844-05-16 01:41 G	14082462.46	14082462.57	14082462.68	0.2656	0.0254
Mercury	33857-05-18 19:26 G	14087213.23	14087213.31	14087213.40	0.2660	0.1610
Mercury	33864-05-11 20:24 G	14089763.29	14089763.35	14089763.42	0.2649	0.2091
Mercury	33867-11-15 00:43 G	14091045.38	14091045.53	14091045.69	0.2681	0.0326
Mercury	33877-05-14 13:12 G	14094513.95	14094514.05	14094514.16	0.2652	0.0752
Mercury	33890-05-17 06:29 G	14099264.67	14099264.77	14099264.88	0.2656	0.0475
Mercury	33900-11-12 22:48 G	14103096.36	14103096.45	14103096.53	0.2683	0.2237
Mercury	33903-05-21 00:29 G	14104015.44	14104015.52	14104015.59	0.2662	0.1898
Mercury	33910-05-14 01:12 G	14106565.47	14106565.55	14106565.63	0.2649	0.1722
Mercury	33913-11-16 07:55 G	14107847.68	14107847.83	14107847.98	0.2680	0.0757
Venus	33919-09-24 02:53 G	14109985.53	14109985.62	14109985.71	0.2672	0.2224
Mercury	33923-05-16 18:00 G	14111316.14	14111316.25	14111316.36	0.2653	0.0605
Venus	33927-09-21 18:14 G	14112905.17	14112905.26	14112905.35	0.2677	0.2140
Mercury	33936-05-18 11:31 G	14116066.87	14116066.98	14116067.08	0.2657	0.0830

Mercury	33946-11-14 05:45 G	14119898.63	14119898.74	14119898.86	0.2682	0.1816
Mercury	33949-05-21 05:17 G	14120817.65	14120817.72	14120817.78	0.2662	0.2141
Mercury	33956-05-14 05:45 G	14123367.65	14123367.74	14123367.83	0.2650	0.1567
Mercury	33959-11-17 14:53 G	14124649.99	14124650.12	14124650.24	0.2680	0.1563
Mercury	33969-05-16 22:48 G	14128118.34	14128118.45	14128118.56	0.2653	0.0228
Mercury	33982-05-19 16:19 G	14132869.08	14132869.18	14132869.28	0.2659	0.1007
Mercury	33989-05-12 17:45 G	14135419.20	14135419.24	14135419.27	0.2649	0.2493
Mercury	33992-11-14 12:57 G	14136700.90	14136701.04	14136701.18	0.2682	0.1039
Mercury	33995-05-22 10:05 G	14137619.88	14137619.92	14137619.95	0.2662	0.2487

35TH MILLENNIUM CE

This is a list of transits visible from Moon in the 35th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	34002-05-15 10:19 G		14140169.84	14140169.93	14140170.03	0.2651	0.1262	
Mercury	34005-11-17 21:36 G		14141452.29	14141452.40	14141452.51	0.2680	0.1910	
Mercury	34015-05-18 03:36 G		14144920.54	14144920.65	14144920.76	0.2654	0.0086	
Mercury	34028-05-19 21:07 G		14149671.29	14149671.38	14149671.47	0.2660	0.1404	
Mercury	34035-05-13 22:19 G		14152221.38	14152221.43	14152221.49	0.2649	0.2242	
Mercury	34038-11-15 19:55 G		14153503.18	14153503.33	14153503.49	0.2681	0.0511	
Mercury	34048-05-15 15:07 G		14156972.03	14156972.13	14156972.23	0.2651	0.1031	
Venus	34049-03-23 17:17 G		14157284.08	14157284.22	14157284.36	0.2664	0.0951	
Mercury	34051-11-19 04:19 G		14158254.67	14158254.68	14158254.68	0.2679	0.2674	
Venus	34057-03-21 12:29 G		14160203.92	14160204.02	14160204.13	0.2661	0.1951	

Mercury	34061-05-18 08:24 G	14161722.74	14161722.85	14161722.95	0.2655	0.0318
Mercury	34074-05-21 01:55 G	14166473.49	14166473.58	14166473.67	0.2660	0.1559
Mercury	34081-05-14 02:53 G	14169023.55	14169023.62	14169023.69	0.2649	0.1962
Mercury	34084-11-16 02:53 G	14170305.46	14170305.62	14170305.78	0.2681	0.0128
Mercury	34094-05-16 19:55 G	14173774.22	14173774.33	14173774.43	0.2651	0.0768
Mercury	34107-05-20 13:12 G	14178524.94	14178525.05	14178525.15	0.2657	0.0535
Mercury	34117-11-15 00:43 G	14182356.49	14182356.53	14182356.58	0.2682	0.2563
Mercury	34120-05-22 06:43 G	14183275.71	14183275.78	14183275.85	0.2660	0.1956
Mercury	34127-05-16 07:26 G	14185825.74	14185825.81	14185825.89	0.2649	0.1800
Mercury	34130-11-18 09:36 G	14187107.75	14187107.90	14187108.05	0.2681	0.0707
Mercury	34140-05-18 00:29 G	14190576.42	14190576.52	14190576.63	0.2652	0.0480
Mercury	34153-05-20 17:45 G	14195327.14	14195327.24	14195327.35	0.2658	0.0819
Mercury	34163-11-16 07:41 G	14199158.71	14199158.82	14199158.94	0.2683	0.1760
Mercury	34166-05-23 11:45 G	14200077.93	14200077.99	14200078.05	0.2661	0.2175
Venus	34170-09-23 04:05 G	14201661.51	14201661.67	14201661.83	0.2670	0.0563
Mercury	34173-05-16 12:14 G	14202627.92	14202628.01	14202628.10	0.2649	0.1436
Mercury	34176-11-18 16:33 G	14203910.05	14203910.19	14203910.33	0.2680	0.1228
Mercury	34186-05-19 05:17 G	14207378.61	14207378.72	14207378.83	0.2654	0.0276
Mercury	34199-05-21 22:33 G	14212129.34	14212129.44	14212129.54	0.2658	0.1100
Mercury	34206-05-16 00:00 G	14214679.46	14214679.50	14214679.55	0.2649	0.2413
Mercury	34209-11-17 14:38 G	14215960.98	14215961.11	14215961.25	0.2683	0.1374
Mercury	34212-05-24 16:33 G	14216880.16	14216880.19	14216880.23	0.2662	0.2510
Mercury	34219-05-18 17:02 G	14219430.11	14219430.21	14219430.30	0.2649	0.1289
Mercury	34222-11-20 23:31 G	14220712.37	14220712.48	14220712.58	0.2678	0.1958
Mercury	34232-05-20 10:05 G	14224180.81	14224180.92	14224181.02	0.2655	0.0138
Mercury	34245-05-23 03:21 G	14228931.55	14228931.64	14228931.74	0.2659	0.1348
Mercury	34252-05-16 04:48 G	14231481.64	14231481.70	14231481.75	0.2648	0.2244
Mercury	34255-11-18 21:36 G	14232763.25	14232763.40	14232763.55	0.2682	0.0553
Mercury	34265-05-18 21:36 G	14236232.30	14236232.40	14236232.50	0.2650	0.0923
Mercury	34268-11-21 06:29 G	14237514.70	14237514.77	14237514.84	0.2678	0.2359

Mercury	34278-05-21 14:38 G	14240983.00	14240983.11	14240983.22	0.2655	0.0245
Mercury	34291-05-24 08:24 G	14245733.77	14245733.85	14245733.93	0.2660	0.1708
Venus	34292-03-25 17:31 G	14246040.07	14246040.23	14246040.40	0.2653	0.0546
Mercury	34298-05-17 09:21 G	14248283.82	14248283.89	14248283.97	0.2648	0.1930
Mercury	34301-11-20 04:33 G	14249565.54	14249565.69	14249565.85	0.2681	0.0154
Mercury	34311-05-21 02:24 G	14253034.49	14253034.60	14253034.70	0.2652	0.0767
Mercury	34324-05-22 19:26 G	14257785.21	14257785.31	14257785.42	0.2656	0.0632
Mercury	34337-05-25 13:12 G	14262535.98	14262536.05	14262536.13	0.2661	0.1897
Mercury	34344-05-18 14:09 G	14265086.01	14265086.09	14265086.17	0.2648	0.1701
Mercury	34347-11-21 11:45 G	14266367.83	14266367.99	14266368.14	0.2680	0.0628
Mercury	34357-05-21 06:57 G	14269836.68	14269836.79	14269836.90	0.2653	0.0442
Mercury	34370-05-24 00:14 G	14274587.41	14274587.51	14274587.62	0.2657	0.0804
Mercury	34377-05-17 01:55 G	14277137.57	14277137.58	14277137.59	0.2648	0.2622
Mercury	34380-11-18 09:21 G	14278418.79	14278418.89	14278418.99	0.2683	0.2064
Mercury	34383-05-26 18:00 G	14279338.20	14279338.25	14279338.31	0.2661	0.2298
Mercury	34390-05-19 18:43 G	14281888.19	14281888.28	14281888.37	0.2649	0.1462
Mercury	34393-11-21 18:43 G	14283170.13	14283170.28	14283170.42	0.2680	0.1120
Mercury	34403-05-22 11:45 G	14286638.88	14286638.99	14286639.10	0.2653	0.0224
Venus	34405-09-27 03:36 G	14287497.51	14287497.65	14287497.79	0.2668	0.1439
Mercury	34416-05-24 05:17 G	14291389.62	14291389.72	14291389.81	0.2659	0.1175
Mercury	34423-05-18 06:43 G	14293939.74	14293939.78	14293939.82	0.2648	0.2458
Mercury	34426-11-19 16:33 G	14295221.05	14295221.19	14295221.33	0.2682	0.1348
Mercury	34429-05-26 23:02 G	14296140.42	14296140.46	14296140.50	0.2661	0.2461
Mercury	34436-05-19 23:17 G	14298690.38	14298690.47	14298690.57	0.2650	0.1169
Mercury	34439-11-23 01:26 G	14299972.44	14299972.56	14299972.68	0.2680	0.1757
Mercury	34449-05-22 16:33 G	14303441.08	14303441.19	14303441.30	0.2653	0.0113
Mercury	34462-05-25 10:05 G	14308191.83	14308191.92	14308192.01	0.2660	0.1397
Mercury	34469-05-18 11:17 G	14310741.91	14310741.97	14310742.04	0.2648	0.2103
Mercury	34472-11-19 23:31 G	14312023.34	14312023.48	14312023.63	0.2681	0.0887
Mercury	34482-05-21 04:05 G	14315492.57	14315492.67	14315492.77	0.2650	0.1000

Mercury	34485-11-23 08:09 G	14316774.76	14316774.84	14316774.92	0.2679	0.2311
Mercury	34495-05-23 21:21 G	14320243.28	14320243.39	14320243.49	0.2655	0.0378
Mercury	34508-05-26 14:53 G	14324994.03	14324994.12	14324994.20	0.2660	0.1699
Mercury	34515-05-20 15:50 G	14327544.09	14327544.16	14327544.24	0.2649	0.1971
Mercury	34518-11-22 06:29 G	14328825.61	14328825.77	14328825.93	0.2682	0.0091
Mercury	34528-05-22 08:38 G	14332294.76	14332294.86	14332294.97	0.2651	0.0637
Venus	34535-03-28 18:14 G	14334796.12	14334796.26	14334796.40	0.2665	0.0889
Mercury	34541-05-25 01:55 G	14337045.48	14337045.58	14337045.69	0.2657	0.0579
Venus	34543-03-26 14:53 G	14337716.09	14337716.12	14337716.15	0.2666	0.2580
Mercury	34554-05-27 19:41 G	14341796.25	14341796.32	14341796.39	0.2660	0.1979
Mercury	34561-05-20 20:38 G	14344346.27	14344346.36	14344346.44	0.2649	0.1629
Mercury	34564-11-22 13:26 G	14345627.90	14345628.06	14345628.22	0.2681	0.0283
Mercury	34574-05-23 13:26 G	14349096.96	14349097.06	14349097.17	0.2651	0.0485
Mercury	34587-05-26 06:43 G	14353847.68	14353847.78	14353847.88	0.2658	0.0941
Mercury	34594-05-19 08:38 G	14356397.84	14356397.86	14356397.88	0.2649	0.2597
Mercury	34597-11-20 11:17 G	14357678.89	14357678.97	14357679.06	0.2683	0.2242
Mercury	34600-05-29 00:29 G	14358598.47	14358598.52	14358598.58	0.2660	0.2239
Mercury	34607-05-23 01:12 G	14361148.46	14361148.55	14361148.64	0.2649	0.1454
Mercury	34610-11-24 20:24 G	14362430.20	14362430.35	14362430.49	0.2680	0.1095
Mercury	34620-05-24 18:14 G	14365899.15	14365899.26	14365899.37	0.2653	0.0108
Mercury	34633-05-27 11:31 G	14370649.89	14370649.98	14370650.08	0.2658	0.1101
Mercury	34640-05-20 13:12 G	14373200.00	14373200.05	14373200.09	0.2648	0.2369
Mercury	34643-11-22 18:14 G	14374481.13	14374481.26	14374481.39	0.2683	0.1537
Mercury	34646-05-30 05:31 G	14375400.71	14375400.73	14375400.75	0.2661	0.2610
Venus	34648-09-29 10:19 G	14376253.88	14376253.93	14376253.99	0.2678	0.2477
Mercury	34653-05-23 06:00 G	14377950.65	14377950.75	14377950.85	0.2649	0.1129
Venus	34656-09-27 03:21 G	14379173.51	14379173.64	14379173.78	0.2673	0.1383
Mercury	34656-11-25 03:07 G	14379232.50	14379232.63	14379232.77	0.2678	0.1494
Mercury	34666-05-25 23:02 G	14382701.35	14382701.46	14382701.57	0.2655	0.0089
Mercury	34679-05-28 16:33 G	14387452.10	14387452.19	14387452.27	0.2658	0.1501

Mercury	34686-05-21 17:45 G	14390002.18	14390002.24	14390002.30	0.2648	0.2161
Mercury	34689-11-23 01:12 G	14391283.40	14391283.55	14391283.69	0.2682	0.1002
Mercury	34699-05-24 10:33 G	14394752.84	14394752.94	14394753.04	0.2650	0.0907
Mercury	34702-11-27 10:05 G	14396034.83	14396034.92	14396035.01	0.2677	0.2234
Mercury	34712-05-27 03:36 G	14399503.55	14399503.65	14399503.76	0.2655	0.0411
Mercury	34725-05-29 21:21 G	14404254.31	14404254.39	14404254.47	0.2659	0.1683
Mercury	34732-05-22 22:33 G	14406804.36	14406804.44	14406804.51	0.2648	0.1836
Mercury	34735-11-25 08:09 G	14408085.69	14408085.84	14408086.00	0.2681	0.0397
Mercury	34745-05-25 15:21 G	14411555.03	14411555.14	14411555.24	0.2652	0.0674
Mercury	34758-05-28 08:24 G	14416305.75	14416305.85	14416305.96	0.2655	0.0625
Mercury	34771-05-31 02:09 G	14421056.52	14421056.59	14421056.66	0.2661	0.2054
Venus	34778-03-31 02:38 G	14423552.45	14423552.61	14423552.76	0.2655	0.0924
Mercury	34778-05-24 03:07 G	14423606.55	14423606.63	14423606.72	0.2648	0.1669
Mercury	34781-11-25 15:21 G	14424887.98	14424888.14	14424888.29	0.2680	0.0323
Venus	34786-03-28 14:24 G	14426472.06	14426472.10	14426472.15	0.2653	0.2535
Mercury	34791-05-26 19:55 G	14428357.22	14428357.33	14428357.44	0.2653	0.0356
Mercury	34804-05-28 13:12 G	14433107.95	14433108.05	14433108.16	0.2656	0.0926
Mercury	34811-05-22 15:07 G	14435658.13	14435658.13	14435658.13	0.2648	0.2646
Mercury	34814-11-23 12:43 G	14436938.95	14436939.03	14436939.11	0.2683	0.2282
Mercury	34817-05-31 06:57 G	14437858.74	14437858.79	14437858.85	0.2661	0.2274
Mercury	34824-05-24 07:41 G	14440408.73	14440408.82	14440408.92	0.2649	0.1323
Mercury	34827-11-26 22:05 G	14441690.27	14441690.42	14441690.58	0.2679	0.0750
Mercury	34837-05-27 00:43 G	14445159.42	14445159.53	14445159.64	0.2653	0.0182
Mercury	34850-05-29 18:14 G	14449910.16	14449910.26	14449910.35	0.2658	0.1230
Mercury	34857-05-22 19:41 G	14452460.27	14452460.32	14452460.37	0.2647	0.2285
Mercury	34860-11-23 19:55 G	14453741.22	14453741.33	14453741.45	0.2682	0.1842
Mercury	34863-06-01 11:45 G	14454660.97	14454660.99	14454661.02	0.2661	0.2588
Mercury	34870-05-25 12:29 G	14457210.92	14457211.02	14457211.11	0.2650	0.1189
Mercury	34873-11-27 05:02 G	14458492.58	14458492.71	14458492.84	0.2680	0.1521
Mercury	34883-05-28 05:31 G	14461961.62	14461961.73	14461961.84	0.2653	0.0208

Venus	34891-10-01 06:14 G	14465009.60	14465009.76	14465009.91	0.2665	0.1152
Mercury	34896-05-29 23:02 G	14466712.37	14466712.46	14466712.55	0.2659	0.1437
Mercury	34903-05-25 00:29 G	14469262.45	14469262.52	14469262.58	0.2648	0.2113
Mercury	34906-11-26 03:07 G	14470543.48	14470543.63	14470543.78	0.2681	0.1027
Mercury	34916-05-26 17:02 G	14474013.11	14474013.21	14474013.31	0.2650	0.0827
Mercury	34919-11-29 11:45 G	14475294.88	14475294.99	14475295.10	0.2678	0.1883
Mercury	34929-05-29 10:19 G	14478763.82	14478763.93	14478764.03	0.2655	0.0357
Mercury	34942-06-01 03:36 G	14483514.58	14483514.65	14483514.73	0.2660	0.1805
Mercury	34949-05-25 05:02 G	14486064.63	14486064.71	14486064.79	0.2648	0.1831
Mercury	34952-11-26 10:05 G	14487345.76	14487345.92	14487346.07	0.2681	0.0596
Mercury	34962-05-27 21:50 G	14490815.30	14490815.41	14490815.51	0.2650	0.0656
Mercury	34965-11-29 18:29 G	14492097.26	14492097.27	14492097.28	0.2676	0.2664
Mercury	34975-05-30 14:53 G	14495566.02	14495566.12	14495566.23	0.2657	0.0744
Mercury	34988-06-01 08:38 G	14500316.79	14500316.86	14500316.93	0.2660	0.1978
Mercury	34995-05-26 09:36 G	14502866.81	14502866.90	14502866.99	0.2649	0.1585
Mercury	34998-11-27 16:48 G	14504148.04	14504148.20	14504148.36	0.2681	0.0115

36TH MILLENNIUM CE

This is a list of transits visible from Moon in the 36th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	35008-05-29 02:38 G		14507617.50	14507617.61	14507617.71	0.2651	0.0343	
Venus	35021-04-01 20:24 G		14512308.19	14512308.35	14512308.50	0.2664	0.0419	
Mercury	35021-05-31 19:41 G		14512368.22	14512368.32	14512368.43	0.2658	0.0907	

Mercury	35028-05-24 21:36 G	14514918.37	14514918.40	14514918.43	0.2648	0.2500
Mercury	35031-11-26 14:38 G	14516199.07	14516199.11	14516199.14	0.2683	0.2604
Mercury	35034-06-03 13:26 G	14517119.02	14517119.06	14517119.11	0.2660	0.2382
Mercury	35041-05-27 14:09 G	14519669.00	14519669.09	14519669.19	0.2648	0.1380
Mercury	35044-11-28 23:45 G	14520950.33	14520950.49	14520950.64	0.2680	0.0641
Mercury	35054-05-30 07:12 G	14524419.69	14524419.80	14524419.91	0.2653	0.0094
Mercury	35067-06-02 00:29 G	14529170.43	14529170.52	14529170.62	0.2658	0.1260
Mercury	35074-05-26 02:09 G	14531720.55	14531720.59	14531720.64	0.2648	0.2353
Mercury	35077-11-26 21:21 G	14533001.28	14533001.39	14533001.51	0.2683	0.1854
Mercury	35080-06-03 18:29 G	14533921.25	14533921.27	14533921.29	0.2661	0.2576
Mercury	35087-05-28 18:57 G	14536471.19	14536471.29	14536471.39	0.2649	0.1046
Mercury	35090-11-30 06:43 G	14537752.63	14537752.78	14537752.92	0.2678	0.1211
Mercury	35100-05-31 12:00 G	14541221.89	14541222.00	14541222.11	0.2655	0.0157
Mercury	35113-06-03 05:17 G	14545972.64	14545972.72	14545972.81	0.2658	0.1482
Mercury	35120-05-27 06:43 G	14548522.71	14548522.78	14548522.85	0.2647	0.2007
Mercury	35123-11-29 04:33 G	14549803.55	14549803.69	14549803.82	0.2682	0.1428
Mercury	35133-05-29 23:45 G	14553273.38	14553273.49	14553273.59	0.2650	0.0889
Venus	35134-10-04 05:45 G	14553765.61	14553765.74	14553765.87	0.2678	0.1384
Mercury	35136-12-01 13:26 G	14554554.95	14554555.06	14554555.18	0.2677	0.1901
Venus	35142-10-02 00:29 G	14556685.46	14556685.52	14556685.57	0.2676	0.2496
Mercury	35146-06-01 16:33 G	14558024.09	14558024.19	14558024.30	0.2655	0.0478
Mercury	35159-06-04 10:19 G	14562774.85	14562774.93	14562775.01	0.2659	0.1788
Mercury	35166-05-28 11:31 G	14565324.90	14565324.98	14565325.06	0.2647	0.1862
Mercury	35169-11-29 11:31 G	14566605.83	14566605.98	14566606.14	0.2681	0.0603
Mercury	35179-05-31 04:19 G	14570075.57	14570075.68	14570075.78	0.2651	0.0530
Mercury	35182-12-02 20:24 G	14571357.27	14571357.35	14571357.43	0.2677	0.2334
Mercury	35192-06-01 21:21 G	14574826.29	14574826.39	14574826.50	0.2655	0.0663
Mercury	35205-06-04 15:07 G	14579577.07	14579577.13	14579577.20	0.2660	0.2108
Mercury	35212-05-28 16:05 G	14582127.09	14582127.17	14582127.26	0.2648	0.1508
Mercury	35215-11-30 18:43 G	14583408.12	14583408.28	14583408.44	0.2679	0.0196

Mercury	35225-05-31 08:53 G	14586877.77	14586877.87	14586877.98	0.2652	0.0395
Mercury	35238-06-03 02:09 G	14591628.49	14591628.59	14591628.69	0.2656	0.1038
Mercury	35245-05-27 04:05 G	14594178.64	14594178.67	14594178.70	0.2647	0.2514
Mercury	35251-06-05 19:55 G	14596379.28	14596379.33	14596379.38	0.2661	0.2316
Mercury	35258-05-29 20:53 G	14598929.27	14598929.37	14598929.46	0.2649	0.1332
Mercury	35261-12-01 01:41 G	14600210.41	14600210.57	14600210.72	0.2679	0.0610
Venus	35264-04-03 09:07 G	14601064.75	14601064.88	14601065.01	0.2659	0.1519
Mercury	35271-06-01 13:41 G	14603679.96	14603680.07	14603680.18	0.2652	0.0010
Venus	35272-03-31 22:33 G	14603984.35	14603984.44	14603984.54	0.2655	0.2134
Mercury	35284-06-03 07:12 G	14608430.70	14608430.80	14608430.89	0.2658	0.1206
Mercury	35291-05-28 08:53 G	14610980.81	14610980.87	14610980.92	0.2647	0.2247
Mercury	35294-11-28 23:17 G	14612261.37	14612261.47	14612261.57	0.2682	0.2102
Mercury	35304-05-31 01:26 G	14615731.46	14615731.56	14615731.66	0.2650	0.1058
Mercury	35307-12-03 08:24 G	14617012.70	14617012.85	14617013.00	0.2679	0.1001
Mercury	35317-06-02 18:29 G	14620482.16	14620482.27	14620482.38	0.2653	0.0160
Mercury	35330-06-05 12:00 G	14625232.91	14625233.00	14625233.08	0.2659	0.1601
Mercury	35337-05-29 13:26 G	14627782.99	14627783.06	14627783.13	0.2647	0.2037
Mercury	35340-11-30 06:14 G	14629063.63	14629063.76	14629063.90	0.2681	0.1442
Mercury	35350-06-01 06:00 G	14632533.65	14632533.75	14632533.86	0.2650	0.0801
Mercury	35353-12-03 15:07 G	14633815.01	14633815.13	14633815.25	0.2678	0.1711
Mercury	35363-06-03 23:17 G	14637284.36	14637284.47	14637284.58	0.2654	0.0499
Mercury	35376-06-05 16:48 G	14642035.12	14642035.20	14642035.28	0.2659	0.1766
Venus	35377-10-05 09:50 G	14642521.77	14642521.91	14642522.04	0.2666	0.1545
Mercury	35383-05-30 18:00 G	14644585.17	14644585.25	14644585.33	0.2648	0.1728
Venus	35385-10-02 18:57 G	14645441.27	14645441.29	14645441.30	0.2664	0.2646
Mercury	35386-12-01 13:12 G	14645865.90	14645866.05	14645866.20	0.2681	0.0940
Mercury	35396-06-01 10:48 G	14649335.84	14649335.95	14649336.06	0.2650	0.0574
Mercury	35399-12-04 21:50 G	14650617.32	14650617.41	14650617.50	0.2676	0.2212
Mercury	35409-06-05 04:05 G	14654086.56	14654086.67	14654086.77	0.2656	0.0746
Mercury	35422-06-07 21:36 G	14658837.34	14658837.40	14658837.46	0.2659	0.2132

Mercury	35429-05-31 22:33 G	14661387.36	14661387.44	14661387.53	0.2648	0.1586
Mercury	35432-12-02 20:09 G	14662668.18	14662668.34	14662668.50	0.2681	0.0226
Mercury	35442-06-03 15:36 G	14666138.04	14666138.15	14666138.26	0.2651	0.0252
Mercury	35455-06-06 08:53 G	14670888.77	14670888.87	14670888.97	0.2657	0.0997
Mercury	35462-05-30 10:48 G	14673438.92	14673438.95	14673438.98	0.2648	0.2519
Mercury	35468-06-08 02:24 G	14675639.56	14675639.60	14675639.65	0.2659	0.2365
Mercury	35475-06-02 03:21 G	14678189.54	14678189.64	14678189.73	0.2648	0.1223
Mercury	35478-12-04 03:07 G	14679470.47	14679470.63	14679470.79	0.2679	0.0214
Mercury	35488-06-03 20:09 G	14682940.24	14682940.34	14682940.45	0.2653	0.0138
Mercury	35501-06-07 13:26 G	14687690.97	14687691.06	14687691.16	0.2657	0.1316
Venus	35507-04-07 00:29 G	14689820.36	14689820.52	14689820.68	0.2661	0.0028
Mercury	35508-05-31 15:21 G	14690241.08	14690241.14	14690241.19	0.2648	0.2200
Mercury	35511-12-03 00:43 G	14691521.46	14691521.53	14691521.60	0.2683	0.2397
Mercury	35521-06-03 07:55 G	14694991.74	14694991.83	14694991.93	0.2648	0.1081
Mercury	35524-12-05 09:50 G	14696272.77	14696272.91	14696273.06	0.2678	0.1012
Mercury	35534-06-06 00:57 G	14699742.43	14699742.54	14699742.65	0.2654	0.0296
Mercury	35547-06-08 18:29 G	14704493.18	14704493.27	14704493.35	0.2657	0.1523
Mercury	35554-06-01 19:55 G	14707043.26	14707043.33	14707043.40	0.2647	0.2006
Mercury	35557-12-03 07:41 G	14708323.69	14708323.82	14708323.94	0.2682	0.1615
Mercury	35567-06-04 12:43 G	14711793.93	14711794.03	14711794.13	0.2649	0.0718
Mercury	35570-12-06 16:48 G	14713075.07	14713075.20	14713075.34	0.2677	0.1382
Mercury	35580-06-06 05:45 G	14716544.63	14716544.74	14716544.85	0.2655	0.0437
Mercury	35593-06-08 23:17 G	14721295.39	14721295.47	14721295.54	0.2659	0.1900
Mercury	35600-06-02 00:29 G	14723845.44	14723845.52	14723845.61	0.2647	0.1732
Mercury	35603-12-04 14:53 G	14725125.97	14725126.12	14725126.26	0.2680	0.1115
Mercury	35613-06-04 17:17 G	14728596.12	14728596.22	14728596.33	0.2651	0.0546
Mercury	35616-12-06 23:31 G	14729877.39	14729877.48	14729877.58	0.2677	0.2173
Venus	35620-10-07 01:41 G	14731277.42	14731277.57	14731277.72	0.2674	0.0080
Mercury	35626-06-07 10:33 G	14733346.83	14733346.94	14733347.04	0.2655	0.0829
Mercury	35639-06-10 04:05 G	14738097.61	14738097.67	14738097.74	0.2660	0.2077

Mercury	35646-06-03 05:17 G	14740647.63	14740647.72	14740647.81	0.2647	0.1471
Mercury	35649-12-04 21:50 G	14741928.25	14741928.41	14741928.57	0.2679	0.0453
Mercury	35659-06-05 22:05 G	14745398.31	14745398.42	14745398.53	0.2652	0.0256
Mercury	35662-12-08 06:29 G	14746679.72	14746679.77	14746679.82	0.2677	0.2544
Mercury	35672-06-07 15:21 G	14750149.04	14750149.14	14750149.24	0.2656	0.1001
Mercury	35679-06-01 17:17 G	14752699.17	14752699.22	14752699.26	0.2647	0.2396
Mercury	35685-06-10 08:53 G	14754899.84	14754899.87	14754899.91	0.2660	0.2473
Mercury	35692-06-03 09:50 G	14757449.82	14757449.91	14757450.01	0.2648	0.1267
Mercury	35695-12-06 04:48 G	14758730.54	14758730.70	14758730.86	0.2679	0.0165
Mercury	35705-06-07 02:38 G	14762200.51	14762200.61	14762200.72	0.2652	0.0110
Mercury	35718-06-09 20:09 G	14766951.25	14766951.34	14766951.43	0.2657	0.1345
Mercury	35725-06-02 21:50 G	14769501.36	14769501.41	14769501.47	0.2647	0.2247
Mercury	35728-12-04 02:09 G	14770781.52	14770781.59	14770781.66	0.2681	0.2389
Mercury	35731-06-12 13:41 G	14771702.07	14771702.07	14771702.08	0.2660	0.2640
Mercury	35738-06-05 14:24 G	14774252.00	14774252.10	14774252.21	0.2649	0.0953
Mercury	35741-12-07 11:31 G	14775532.83	14775532.98	14775533.14	0.2679	0.0681
Venus	35750-04-08 13:12 G	14778576.93	14778577.05	14778577.17	0.2664	0.1684
Mercury	35751-06-08 07:26 G	14779002.70	14779002.81	14779002.92	0.2652	0.0252
Venus	35758-04-06 05:45 G	14781496.66	14781496.74	14781496.82	0.2659	0.2305
Mercury	35764-06-10 00:57 G	14783753.45	14783753.54	14783753.63	0.2659	0.1595
Mercury	35771-06-04 02:38 G	14786303.53	14786303.61	14786303.68	0.2647	0.1885
Mercury	35774-12-05 09:21 G	14787583.79	14787583.89	14787584.00	0.2681	0.1966
Mercury	35784-06-05 19:12 G	14791054.20	14791054.30	14791054.40	0.2650	0.0801
Mercury	35787-12-08 18:14 G	14792335.13	14792335.26	14792335.40	0.2678	0.1361
Mercury	35797-06-08 12:14 G	14795804.90	14795805.01	14795805.12	0.2654	0.0569
Mercury	35810-06-12 05:45 G	14800555.66	14800555.74	14800555.81	0.2659	0.1857
Mercury	35817-06-05 07:12 G	14803105.72	14803105.80	14803105.88	0.2648	0.1746
Mercury	35820-12-06 16:19 G	14804386.04	14804386.18	14804386.33	0.2681	0.1130
Mercury	35830-06-07 23:45 G	14807856.39	14807856.49	14807856.60	0.2650	0.0439
Mercury	35833-12-10 01:12 G	14809137.43	14809137.55	14809137.67	0.2676	0.1778

Mercury	35843-06-10 17:02 G	14812607.11	14812607.21	14812607.31	0.2656	0.0750
Mercury	35856-06-12 10:33 G	14817357.88	14817357.94	14817358.00	0.2659	0.2168
Mercury	35863-06-06 11:45 G	14819907.90	14819907.99	14819908.08	0.2648	0.1427
Venus	35863-10-10 11:45 G	14820033.86	14820033.99	14820034.12	0.2669	0.1616
Mercury	35866-12-07 23:17 G	14821188.32	14821188.47	14821188.62	0.2681	0.0768
Mercury	35876-06-08 04:33 G	14824658.58	14824658.69	14824658.80	0.2650	0.0285
Mercury	35879-12-11 07:55 G	14825939.79	14825939.83	14825939.88	0.2675	0.2555
Mercury	35889-06-10 21:50 G	14829409.31	14829409.41	14829409.51	0.2657	0.1132
Mercury	35896-06-04 00:00 G	14831959.45	14831959.50	14831959.54	0.2647	0.2391
Mercury	35902-06-14 15:21 G	14834160.10	14834160.14	14834160.19	0.2659	0.2399
Mercury	35909-06-07 16:19 G	14836710.09	14836710.18	14836710.28	0.2648	0.1236
Mercury	35912-12-09 06:14 G	14837990.59	14837990.76	14837990.92	0.2679	0.0074
Mercury	35922-06-10 09:21 G	14841460.78	14841460.89	14841461.00	0.2652	0.0100
Mercury	35935-06-13 02:38 G	14846211.51	14846211.61	14846211.70	0.2657	0.1279
Mercury	35942-06-06 04:33 G	14848761.62	14848761.69	14848761.75	0.2647	0.2143
Mercury	35955-06-08 21:07 G	14853512.28	14853512.38	14853512.48	0.2648	0.0940
Mercury	35958-12-10 13:12 G	14854792.89	14854793.05	14854793.21	0.2677	0.0487
Mercury	35968-06-10 14:09 G	14858262.98	14858263.09	14858263.19	0.2654	0.0291
Mercury	35981-06-13 07:26 G	14863013.73	14863013.81	14863013.89	0.2657	0.1672
Mercury	35988-06-06 09:07 G	14865563.81	14865563.88	14865563.95	0.2647	0.1961
Mercury	35991-12-08 10:33 G	14866843.84	14866843.94	14866844.05	0.2682	0.2045
Venus	35993-04-10 07:12 G	14867332.63	14867332.80	14867332.96	0.2657	0.0256

37TH MILLENNIUM CE

This is a list of transits visible from Moon in the 37th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	36001-06-09 01:41	G	14870314.47	14870314.57	14870314.68	0.2649	0.0700	
Mercury	36004-12-10 20:09	G	14871595.19	14871595.34	14871595.48	0.2677	0.1144	
Mercury	36014-06-11 18:43	G	14875065.18	14875065.28	14875065.39	0.2654	0.0577	
Mercury	36027-06-14 12:14	G	14879815.94	14879816.01	14879816.09	0.2658	0.1866	
Mercury	36034-06-07 13:41	G	14882365.98	14882366.07	14882366.15	0.2647	0.1620	
Mercury	36037-12-08 17:45	G	14883646.11	14883646.24	14883646.37	0.2680	0.1541	
Mercury	36047-06-10 06:29	G	14887116.66	14887116.77	14887116.87	0.2651	0.0488	
Mercury	36050-12-12 02:53	G	14888397.49	14888397.62	14888397.74	0.2677	0.1699	
Mercury	36060-06-11 23:31	G	14891867.38	14891867.48	14891867.58	0.2654	0.0817	
Mercury	36067-06-06 01:41	G	14894417.55	14894417.57	14894417.59	0.2647	0.2568	
Mercury	36073-06-14 17:17	G	14896618.16	14896618.22	14896618.27	0.2659	0.2214	
Mercury	36080-06-07 18:29	G	14899168.18	14899168.27	14899168.36	0.2647	0.1474	
Mercury	36083-12-10 00:43	G	14900448.38	14900448.53	14900448.69	0.2679	0.0743	
Mercury	36093-06-10 11:02	G	14903918.85	14903918.96	14903919.07	0.2652	0.0159	
Mercury	36096-12-12 09:36	G	14905199.81	14905199.90	14905199.99	0.2677	0.2240	
Mercury	36106-06-14 04:19	G	14908669.58	14908669.68	14908669.78	0.2655	0.1086	
Venus	36106-10-12 00:00	G	14908789.34	14908789.50	14908789.66	0.2670	0.0525	
Mercury	36113-06-07 06:14	G	14911219.72	14911219.76	14911219.81	0.2647	0.2423	
Mercury	36119-06-16 22:05	G	14913420.38	14913420.42	14913420.45	0.2660	0.2455	
Mercury	36126-06-09 23:02	G	14915970.36	14915970.46	14915970.56	0.2648	0.1117	
Mercury	36129-12-11 07:55	G	14917250.67	14917250.83	14917250.99	0.2679	0.0350	
Mercury	36139-06-12 15:50	G	14920721.05	14920721.16	14920721.27	0.2652	0.0004	
Mercury	36152-06-14 09:07	G	14925471.79	14925471.88	14925471.97	0.2657	0.1414	
Mercury	36159-06-08 11:02	G	14928021.89	14928021.96	14928022.02	0.2646	0.2084	
Mercury	36172-06-10 03:36	G	14932772.55	14932772.65	14932772.75	0.2649	0.0978	
Mercury	36175-12-12 14:38	G	14934052.95	14934053.11	14934053.27	0.2679	0.0469	
Mercury	36185-06-12 20:38	G	14937523.25	14937523.36	14937523.47	0.2652	0.0387	

Mercury	36198-06-15 13:55 G	14942274.00	14942274.08	14942274.17	0.2658	0.1604
Mercury	36205-06-09 15:36 G	14944824.08	14944824.15	14944824.23	0.2647	0.1898
Mercury	36208-12-10 12:29 G	14946103.93	14946104.02	14946104.11	0.2681	0.2206
Mercury	36218-06-12 08:09 G	14949574.74	14949574.84	14949574.95	0.2649	0.0648
Mercury	36221-12-13 21:21 G	14950855.24	14950855.39	14950855.55	0.2678	0.0814
Mercury	36231-06-15 01:26 G	14954325.45	14954325.56	14954325.66	0.2654	0.0541
Venus	36236-04-12 14:38 G	14956088.98	14956089.11	14956089.25	0.2668	0.1010
Venus	36244-04-10 10:05 G	14959008.87	14959008.92	14959008.98	0.2665	0.2491
Mercury	36244-06-16 18:43 G	14959076.21	14959076.28	14959076.35	0.2659	0.1981
Mercury	36251-06-10 20:09 G	14961626.26	14961626.34	14961626.43	0.2647	0.1641
Mercury	36254-12-11 19:12 G	14962906.18	14962906.30	14962906.43	0.2681	0.1680
Mercury	36264-06-12 12:57 G	14966376.93	14966377.04	14966377.15	0.2649	0.0456
Mercury	36267-12-15 04:05 G	14967657.54	14967657.67	14967657.80	0.2676	0.1567
Mercury	36277-06-15 06:00 G	14971127.65	14971127.75	14971127.86	0.2656	0.0915
Mercury	36284-06-08 08:24 G	14973677.84	14973677.85	14973677.86	0.2647	0.2617
Mercury	36290-06-17 23:31 G	14975878.42	14975878.48	14975878.54	0.2658	0.2143
Mercury	36297-06-11 00:57 G	14978428.44	14978428.54	14978428.63	0.2648	0.1378
Mercury	36300-12-13 02:09 G	14979708.44	14979708.59	14979708.74	0.2680	0.1053
Mercury	36310-06-14 17:45 G	14983179.13	14983179.24	14983179.35	0.2650	0.0148
Mercury	36313-12-16 11:02 G	14984459.85	14984459.96	14984460.06	0.2675	0.2002
Mercury	36323-06-17 10:48 G	14987929.86	14987929.95	14987930.05	0.2656	0.1096
Mercury	36330-06-10 12:57 G	14990479.99	14990480.04	14990480.09	0.2647	0.2286
Mercury	36336-06-19 04:33 G	14992680.66	14992680.69	14992680.72	0.2659	0.2536
Mercury	36343-06-13 05:31 G	14995230.63	14995230.73	14995230.83	0.2647	0.1189
Mercury	36346-12-14 09:07 G	14996510.72	14996510.88	14996511.04	0.2679	0.0427
Venus	36349-10-14 11:17 G	14997545.82	14997545.97	14997546.12	0.2671	0.0893
Mercury	36356-06-14 22:19 G	14999981.33	14999981.43	14999981.54	0.2652	0.0147
Mercury	36359-12-17 17:45 G	15001262.24	15001262.24	15001262.25	0.2674	0.2672
Mercury	36369-06-17 15:36 G	15004732.06	15004732.15	15004732.24	0.2657	0.1419
Mercury	36376-06-10 17:31 G	15007282.17	15007282.23	15007282.29	0.2647	0.2153

Mercury	36389-06-13 10:19 G	15012032.82	15012032.93	15012033.03	0.2648	0.0852
Mercury	36392-12-14 16:05 G	15013313.00	15013313.17	15013313.33	0.2677	0.0067
Mercury	36402-06-16 03:07 G	15016783.52	15016783.63	15016783.74	0.2654	0.0318
Mercury	36415-06-18 20:24 G	15021534.27	15021534.35	15021534.44	0.2657	0.1659
Mercury	36422-06-11 22:05 G	15024084.34	15024084.42	15024084.50	0.2647	0.1807
Mercury	36425-12-12 13:41 G	15025364.03	15025364.07	15025364.10	0.2682	0.2599
Mercury	36435-06-14 14:53 G	15028835.02	15028835.12	15028835.23	0.2649	0.0697
Mercury	36438-12-15 23:02 G	15030115.30	15030115.46	15030115.61	0.2676	0.0831
Mercury	36448-06-16 07:55 G	15033585.72	15033585.83	15033585.93	0.2654	0.0666
Mercury	36461-06-19 01:26 G	15038336.48	15038336.56	15038336.63	0.2658	0.1940
Mercury	36468-06-12 02:53 G	15040886.53	15040886.62	15040886.70	0.2646	0.1656
Mercury	36471-12-13 20:38 G	15042166.24	15042166.36	15042166.48	0.2680	0.1766
Venus	36479-04-14 15:50 G	15044845.01	15044845.16	15044845.31	0.2656	0.1156
Mercury	36481-06-14 19:26 G	15045637.21	15045637.31	15045637.42	0.2650	0.0350
Mercury	36484-12-16 06:00 G	15046917.60	15046917.75	15046917.89	0.2676	0.1205
Mercury	36494-06-17 12:43 G	15050387.92	15050388.03	15050388.13	0.2654	0.0832
Mercury	36501-06-11 14:53 G	15052938.10	15052938.12	15052938.14	0.2647	0.2565
Mercury	36507-06-21 06:14 G	15055138.71	15055138.76	15055138.81	0.2659	0.2272
Mercury	36514-06-14 07:26 G	15057688.72	15057688.81	15057688.91	0.2647	0.1318
Mercury	36517-12-15 03:36 G	15058968.51	15058968.65	15058968.79	0.2678	0.1330
Mercury	36527-06-17 00:14 G	15062439.40	15062439.51	15062439.62	0.2652	0.0199
Mercury	36530-12-18 12:29 G	15063719.92	15063720.02	15063720.13	0.2676	0.1987
Mercury	36540-06-18 17:17 G	15067190.13	15067190.22	15067190.32	0.2655	0.1214
Mercury	36547-06-12 19:26 G	15069740.26	15069740.31	15069740.36	0.2646	0.2330
Mercury	36553-06-21 11:02 G	15071940.92	15071940.96	15071941.00	0.2659	0.2461
Mercury	36560-06-14 12:14 G	15074490.91	15074491.01	15074491.10	0.2648	0.1136
Mercury	36563-12-16 10:33 G	15075770.79	15075770.94	15075771.10	0.2678	0.0593
Mercury	36573-06-17 04:48 G	15079241.60	15079241.70	15079241.81	0.2652	0.0185
Mercury	36576-12-18 19:12 G	15080522.22	15080522.30	15080522.38	0.2675	0.2320
Mercury	36586-06-19 22:19 G	15083992.34	15083992.43	15083992.52	0.2657	0.1376

Venus	36592-10-15 00:29 G	15086301.35	15086301.52	15086301.68	0.2666	0.0473
Mercury	36593-06-13 00:14 G	15086542.44	15086542.51	15086542.57	0.2646	0.2036
Mercury	36606-06-16 16:48 G	15091293.09	15091293.20	15091293.30	0.2649	0.0886
Mercury	36609-12-17 17:31 G	15092573.07	15092573.23	15092573.39	0.2678	0.0106
Mercury	36619-06-19 09:36 G	15096043.79	15096043.90	15096044.01	0.2652	0.0345
Mercury	36632-06-21 03:07 G	15100794.55	15100794.63	15100794.71	0.2658	0.1754
Mercury	36639-06-15 04:48 G	15103344.62	15103344.70	15103344.78	0.2646	0.1853
Mercury	36642-12-15 15:07 G	15104624.09	15104624.13	15104624.17	0.2680	0.2586
Mercury	36652-06-16 21:21 G	15108095.28	15108095.39	15108095.49	0.2649	0.0601
Mercury	36655-12-19 00:14 G	15109375.35	15109375.51	15109375.67	0.2677	0.0512
Mercury	36665-06-19 14:24 G	15112846.00	15112846.10	15112846.21	0.2653	0.0658
Mercury	36678-06-22 07:55 G	15117596.76	15117596.83	15117596.90	0.2658	0.1932
Mercury	36685-06-15 09:21 G	15120146.80	15120146.89	15120146.98	0.2647	0.1532
Mercury	36688-12-15 22:05 G	15121426.33	15121426.42	15121426.52	0.2680	0.2167
Mercury	36698-06-18 02:09 G	15124897.48	15124897.59	15124897.69	0.2649	0.0421
Mercury	36701-12-20 06:57 G	15126177.64	15126177.79	15126177.94	0.2676	0.1118
Mercury	36711-06-21 19:12 G	15129648.20	15129648.30	15129648.40	0.2655	0.0927
Mercury	36718-06-14 21:36 G	15132198.36	15132198.40	15132198.43	0.2647	0.2465
Venus	36722-04-17 15:36 G	15133601.00	15133601.15	15133601.30	0.2669	0.0323
Mercury	36724-06-23 12:43 G	15134398.97	15134399.03	15134399.08	0.2658	0.2272
Venus	36730-04-15 11:45 G	15136520.93	15136520.99	15136521.06	0.2670	0.2399
Mercury	36731-06-17 13:55 G	15136948.99	15136949.08	15136949.17	0.2648	0.1402
Mercury	36734-12-18 05:02 G	15138228.57	15138228.71	15138228.85	0.2680	0.1360
Mercury	36744-06-19 06:43 G	15141699.67	15141699.78	15141699.89	0.2650	0.0088
Mercury	36747-12-21 13:55 G	15142979.94	15142980.08	15142980.21	0.2674	0.1569
Mercury	36757-06-22 00:00 G	15146450.40	15146450.50	15146450.60	0.2656	0.1144
Mercury	36764-06-15 02:09 G	15149000.54	15149000.59	15149000.64	0.2647	0.2315
Mercury	36770-06-24 17:31 G	15151201.20	15151201.23	15151201.26	0.2658	0.2526
Mercury	36777-06-17 18:29 G	15153751.18	15153751.27	15153751.37	0.2647	0.1045
Mercury	36780-12-18 12:00 G	15155030.84	15155031.00	15155031.15	0.2678	0.0994

Mercury	36790-06-20 11:31 G	15158501.87	15158501.98	15158502.09	0.2652	0.0089
Mercury	36793-12-21 20:38 G	15159782.28	15159782.36	15159782.44	0.2674	0.2327
Mercury	36803-06-23 04:48 G	15163252.61	15163252.70	15163252.79	0.2656	0.1485
Mercury	36810-06-16 06:43 G	15165802.71	15165802.78	15165802.85	0.2647	0.2019
Mercury	36823-06-18 23:17 G	15170553.37	15170553.47	15170553.57	0.2648	0.0892
Mercury	36826-12-19 18:43 G	15171833.12	15171833.28	15171833.44	0.2676	0.0193
Venus	36835-10-18 09:07 G	15175057.72	15175057.88	15175058.03	0.2673	0.0143
Mercury	36836-06-20 16:19 G	15175304.07	15175304.18	15175304.28	0.2654	0.0473
Mercury	36849-06-23 09:36 G	15180054.81	15180054.90	15180054.98	0.2657	0.1668
Mercury	36856-06-16 11:17 G	15182604.89	15182604.97	15182605.05	0.2646	0.1809
Mercury	36869-06-19 04:05 G	15187355.56	15187355.67	15187355.77	0.2649	0.0560
Mercury	36872-12-20 01:41 G	15188635.41	15188635.57	15188635.74	0.2676	0.0219
Mercury	36882-06-21 20:53 G	15192106.27	15192106.37	15192106.48	0.2654	0.0614
Mercury	36895-06-24 14:24 G	15196857.03	15196857.10	15196857.17	0.2658	0.2057
Mercury	36902-06-18 15:50 G	15199407.08	15199407.16	15199407.25	0.2646	0.1572
Mercury	36905-12-18 23:17 G	15200686.39	15200686.47	15200686.55	0.2679	0.2282
Mercury	36915-06-21 08:38 G	15204157.75	15204157.86	15204157.97	0.2650	0.0356
Mercury	36918-12-22 08:38 G	15205437.70	15205437.86	15205438.01	0.2676	0.0958
Mercury	36928-06-23 01:41 G	15208908.47	15208908.57	15208908.67	0.2654	0.0977
Mercury	36935-06-17 04:05 G	15211458.64	15211458.67	15211458.69	0.2647	0.2550
Mercury	36941-06-25 19:12 G	15213659.25	15213659.30	15213659.36	0.2659	0.2232
Mercury	36948-06-18 20:38 G	15216209.26	15216209.36	15216209.45	0.2646	0.1281
Mercury	36951-12-20 06:14 G	15217488.64	15217488.76	15217488.88	0.2678	0.1755
Mercury	36961-06-21 13:12 G	15220959.95	15220960.05	15220960.16	0.2652	0.0151
Mercury	36964-12-22 15:21 G	15222240.00	15222240.14	15222240.28	0.2676	0.1408
Venus	36965-04-18 23:45 G	15222357.35	15222357.49	15222357.62	0.2658	0.1532
Mercury	36974-06-24 06:29 G	15225710.67	15225710.77	15225710.87	0.2655	0.1164
Mercury	36981-06-17 08:38 G	15228260.80	15228260.86	15228260.91	0.2646	0.2209
Mercury	36987-06-27 00:00 G	15230461.49	15230461.50	15230461.52	0.2659	0.2608
Mercury	36994-06-20 01:12 G	15233011.45	15233011.55	15233011.65	0.2648	0.1104

Mercury 36997-12-20 13:12 G 15234290.90 15234291.05 15234291.21 0.2678 0.1006

38TH MILLENNIUM CE

This is a list of transits visible from Moon in the 38th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	37007-06-23 18:00	G	15237762.14	15237762.25	15237762.36	0.2652	0.0184	
Mercury	37010-12-24 21:50	G	15239042.30	15239042.41	15239042.52	0.2674	0.1984	
Mercury	37020-06-25 11:17	G	15242512.88	15242512.97	15242513.06	0.2657	0.1486	
Mercury	37027-06-19 13:12	G	15245062.99	15245063.05	15245063.12	0.2646	0.2071	
Mercury	37040-06-21 05:45	G	15249813.64	15249813.74	15249813.85	0.2649	0.0775	
Mercury	37043-12-22 20:09	G	15251093.19	15251093.34	15251093.50	0.2678	0.0584	
Mercury	37053-06-23 22:48	G	15254564.34	15254564.45	15254564.56	0.2652	0.0395	
Mercury	37056-12-25 04:33	G	15255844.65	15255844.69	15255844.73	0.2673	0.2592	
Mercury	37066-06-26 16:05	G	15259315.09	15259315.17	15259315.25	0.2658	0.1766	
Mercury	37073-06-19 18:00	G	15261865.17	15261865.25	15261865.33	0.2646	0.1715	
Venus	37078-10-20 03:21	G	15263813.47	15263813.64	15263813.81	0.2662	0.0323	
Mercury	37086-06-22 10:33	G	15266615.83	15266615.94	15266616.04	0.2649	0.0641	
Mercury	37089-12-23 02:53	G	15267895.46	15267895.62	15267895.79	0.2677	0.0192	
Mercury	37099-06-25 03:36	G	15271366.54	15271366.65	15271366.75	0.2653	0.0742	
Mercury	37112-06-27 20:53	G	15276117.30	15276117.37	15276117.44	0.2658	0.1989	
Mercury	37119-06-21 22:33	G	15278667.35	15278667.44	15278667.53	0.2647	0.1564	
Mercury	37122-12-22 00:43	G	15279946.46	15279946.53	15279946.59	0.2679	0.2417	
Mercury	37132-06-23 15:07	G	15283418.02	15283418.13	15283418.24	0.2649	0.0267	

Mercury	37135-12-25 09:36 G	15284697.74	15284697.90	15284698.07	0.2675	0.0536
Mercury	37145-06-26 08:24 G	15288168.75	15288168.85	15288168.95	0.2655	0.0907
Mercury	37152-06-19 10:33 G	15290718.91	15290718.94	15290718.98	0.2646	0.2472
Mercury	37158-06-29 01:41 G	15292919.52	15292919.57	15292919.62	0.2658	0.2326
Mercury	37165-06-22 03:07 G	15295469.53	15295469.63	15295469.72	0.2647	0.1274
Mercury	37168-12-22 07:41 G	15296748.71	15296748.82	15296748.93	0.2679	0.1980
Mercury	37178-06-24 19:55 G	15300220.22	15300220.33	15300220.44	0.2650	0.0112
Mercury	37181-12-25 16:19 G	15301500.04	15301500.18	15301500.33	0.2674	0.1315
Mercury	37191-06-27 12:57 G	15304970.95	15304971.04	15304971.14	0.2656	0.1292
Mercury	37198-06-20 15:21 G	15307521.08	15307521.14	15307521.19	0.2647	0.2236
Mercury	37204-06-29 06:43 G	15309721.75	15309721.78	15309721.81	0.2658	0.2526
Venus	37208-04-20 17:31 G	15311113.07	15311113.23	15311113.38	0.2668	0.0284
Mercury	37211-06-23 07:41 G	15312271.72	15312271.82	15312271.92	0.2647	0.1055
Mercury	37214-12-23 14:24 G	15313550.96	15313551.10	15313551.25	0.2678	0.1295
Venus	37216-04-18 12:57 G	15314032.99	15314033.04	15314033.09	0.2672	0.2491
Mercury	37224-06-25 00:43 G	15317022.42	15317022.53	15317022.63	0.2652	0.0249
Mercury	37227-12-26 23:31 G	15318302.35	15318302.48	15318302.60	0.2674	0.1709
Mercury	37237-06-27 17:45 G	15321773.15	15321773.24	15321773.33	0.2656	0.1435
Mercury	37244-06-20 19:55 G	15324323.25	15324323.33	15324323.40	0.2646	0.1962
Mercury	37257-06-23 12:29 G	15329073.91	15329074.02	15329074.12	0.2647	0.0801
Mercury	37260-12-23 21:21 G	15330353.23	15330353.39	15330353.55	0.2676	0.0725
Mercury	37270-06-26 05:17 G	15333824.62	15333824.72	15333824.83	0.2654	0.0442
Mercury	37273-12-27 06:00 G	15335104.69	15335104.75	15335104.82	0.2674	0.2433
Mercury	37283-06-28 22:33 G	15338575.37	15338575.44	15338575.52	0.2656	0.1810
Mercury	37290-06-22 00:29 G	15341125.44	15341125.52	15341125.60	0.2646	0.1804
Mercury	37303-06-25 17:02 G	15345876.11	15345876.21	15345876.32	0.2648	0.0522
Mercury	37306-12-26 04:19 G	15347155.51	15347155.68	15347155.84	0.2675	0.0201
Venus	37313-10-24 10:48 G	15349649.90	15349649.95	15349650.00	0.2671	0.2516
Mercury	37316-06-27 10:05 G	15350626.81	15350626.92	15350627.02	0.2654	0.0708
Venus	37321-10-22 05:02 G	15352569.57	15352569.71	15352569.85	0.2673	0.0850

Mercury	37329-06-30 03:36 G	15355377.58	15355377.65	15355377.72	0.2657	0.2015
Mercury	37336-06-23 05:02 G	15357927.62	15357927.71	15357927.80	0.2646	0.1449
Mercury	37349-06-25 21:50 G	15362678.30	15362678.41	15362678.51	0.2650	0.0346
Mercury	37352-12-26 11:17 G	15363957.80	15363957.97	15363958.13	0.2675	0.0513
Mercury	37362-06-28 14:53 G	15367429.02	15367429.12	15367429.22	0.2654	0.0986
Mercury	37369-06-21 17:02 G	15369979.17	15369979.21	15369979.26	0.2647	0.2407
Mercury	37375-07-01 08:24 G	15372179.80	15372179.85	15372179.90	0.2658	0.2330
Mercury	37382-06-24 09:50 G	15374729.81	15374729.91	15374730.00	0.2646	0.1312
Mercury	37385-12-24 08:53 G	15376008.76	15376008.87	15376008.97	0.2677	0.2020
Mercury	37395-06-27 02:24 G	15379480.49	15379480.60	15379480.71	0.2651	0.0034
Mercury	37398-12-27 18:00 G	15380760.10	15380760.25	15380760.41	0.2675	0.0943
Mercury	37408-06-29 19:41 G	15384231.22	15384231.32	15384231.41	0.2655	0.1216
Mercury	37415-06-23 21:50 G	15386781.35	15386781.41	15386781.46	0.2646	0.2243
Mercury	37421-07-02 13:12 G	15388982.03	15388982.05	15388982.07	0.2659	0.2602
Mercury	37428-06-25 14:24 G	15391532.00	15391532.10	15391532.20	0.2647	0.0962
Mercury	37431-12-26 15:50 G	15392811.03	15392811.16	15392811.29	0.2677	0.1644
Mercury	37441-06-28 07:12 G	15396282.69	15396282.80	15396282.91	0.2652	0.0156
Mercury	37444-12-29 00:29 G	15397562.39	15397562.52	15397562.65	0.2674	0.1656
Venus	37451-04-24 05:45 G	15399869.60	15399869.74	15399869.88	0.2663	0.1293
Mercury	37454-07-01 00:29 G	15401033.43	15401033.52	15401033.61	0.2656	0.1565
Venus	37459-04-21 19:12 G	15402789.28	15402789.30	15402789.32	0.2659	0.2630
Mercury	37461-06-24 02:24 G	15403583.53	15403583.60	15403583.67	0.2646	0.1936
Mercury	37474-06-26 18:57 G	15408334.19	15408334.29	15408334.39	0.2649	0.0810
Mercury	37477-12-26 22:48 G	15409613.29	15409613.45	15409613.60	0.2677	0.0849
Mercury	37487-06-29 12:00 G	15413084.89	15413085.00	15413085.10	0.2652	0.0541
Mercury	37490-12-30 07:12 G	15414364.69	15414364.80	15414364.91	0.2673	0.1999
Mercury	37500-07-02 05:17 G	15417835.64	15417835.72	15417835.80	0.2658	0.1734
Mercury	37507-06-26 07:12 G	15420385.71	15420385.80	15420385.88	0.2646	0.1722
Mercury	37520-06-27 23:31 G	15425136.38	15425136.48	15425136.59	0.2649	0.0514
Mercury	37523-12-29 05:31 G	15426415.57	15426415.73	15426415.89	0.2676	0.0441

Mercury	37533-06-30 16:48 G	15429887.09	15429887.20	15429887.30	0.2653	0.0695
Mercury	37540-06-23 19:12 G	15432437.29	15432437.30	15432437.31	0.2646	0.2622
Mercury	37546-07-03 10:05 G	15434637.85	15434637.92	15434637.98	0.2658	0.2119
Mercury	37553-06-26 11:45 G	15437187.90	15437187.99	15437188.08	0.2647	0.1495
Venus	37564-10-24 08:24 G	15441325.68	15441325.85	15441326.01	0.2661	0.0583
Mercury	37566-06-29 04:19 G	15441938.57	15441938.68	15441938.79	0.2649	0.0291
Mercury	37569-12-29 12:14 G	15443217.84	15443218.01	15443218.17	0.2675	0.0218
Mercury	37579-07-01 21:21 G	15446689.30	15446689.39	15446689.49	0.2655	0.1043
Mercury	37586-06-24 23:45 G	15449239.46	15449239.49	15449239.53	0.2646	0.2464
Mercury	37592-07-03 14:53 G	15451440.06	15451440.12	15451440.17	0.2658	0.2272
Mercury	37599-06-27 16:19 G	15453990.08	15453990.18	15453990.27	0.2647	0.1211
Mercury	37602-12-27 10:05 G	15455268.85	15455268.92	15455268.99	0.2679	0.2427
Mercury	37612-06-29 09:07 G	15458740.77	15458740.88	15458740.99	0.2650	0.0060
Mercury	37615-12-30 18:57 G	15460020.13	15460020.29	15460020.45	0.2674	0.0766
Mercury	37625-07-02 02:09 G	15463491.50	15463491.59	15463491.69	0.2656	0.1247
Mercury	37632-06-25 04:33 G	15466041.62	15466041.69	15466041.75	0.2646	0.2119
Mercury	37638-07-04 19:41 G	15468242.32	15468242.32	15468242.32	0.2658	0.2650
Mercury	37645-06-27 20:53 G	15470792.27	15470792.37	15470792.47	0.2647	0.1048
Mercury	37648-12-27 16:48 G	15472071.08	15472071.20	15472071.33	0.2677	0.1699
Mercury	37658-06-30 13:41 G	15475542.97	15475543.07	15475543.18	0.2651	0.0276
Mercury	37661-12-31 01:55 G	15476822.44	15476822.58	15476822.72	0.2674	0.1322
Mercury	37671-07-03 06:57 G	15480293.70	15480293.79	15480293.87	0.2656	0.1535
Mercury	37678-06-26 09:07 G	15482843.81	15482843.88	15482843.95	0.2646	0.1991
Mercury	37691-06-29 01:41 G	15487594.46	15487594.57	15487594.67	0.2647	0.0690
Venus	37694-04-24 20:53 G	15488625.22	15488625.37	15488625.53	0.2665	0.0595
Mercury	37694-12-29 00:00 G	15488873.35	15488873.50	15488873.64	0.2675	0.1302
Mercury	37704-07-01 18:29 G	15492345.16	15492345.27	15492345.38	0.2653	0.0451
Mercury	37708-01-02 08:53 G	15493624.75	15493624.87	15493624.98	0.2674	0.1974
Mercury	37717-07-04 11:45 G	15497095.91	15497095.99	15497096.07	0.2656	0.1804
Mercury	37724-06-27 13:41 G	15499645.98	15499646.07	15499646.15	0.2646	0.1659

Mercury	37737-06-30 06:14 G	15504396.66	15504396.76	15504396.87	0.2648	0.0555
Mercury	37740-12-30 06:43 G	15505675.62	15505675.78	15505675.94	0.2675	0.0482
Mercury	37750-07-02 23:17 G	15509147.36	15509147.47	15509147.57	0.2654	0.0814
Mercury	37754-01-02 15:21 G	15510427.07	15510427.14	15510427.21	0.2674	0.2393
Mercury	37757-06-26 01:55 G	15511697.56	15511697.58	15511697.59	0.2647	0.2613
Mercury	37763-07-05 16:33 G	15513898.13	15513898.19	15513898.26	0.2657	0.2054
Mercury	37770-06-28 18:14 G	15516448.17	15516448.26	15516448.35	0.2646	0.1497
Mercury	37783-07-01 11:02 G	15521198.85	15521198.96	15521199.06	0.2650	0.0224
Mercury	37786-12-31 13:41 G	15522477.91	15522478.07	15522478.24	0.2675	0.0130
Mercury	37796-07-03 03:50 G	15525949.56	15525949.66	15525949.76	0.2654	0.0962
Venus	37799-10-28 09:36 G	15527161.79	15527161.90	15527162.01	0.2666	0.1894
Mercury	37803-06-28 06:14 G	15528499.72	15528499.76	15528499.81	0.2646	0.2394
Venus	37807-10-27 01:41 G	15530081.43	15530081.57	15530081.70	0.2670	0.1154
Mercury	37809-07-06 21:36 G	15530700.35	15530700.40	15530700.44	0.2658	0.2410
Mercury	37816-06-29 23:02 G	15533250.36	15533250.46	15533250.55	0.2646	0.1182
Mercury	37819-12-30 11:17 G	15534528.94	15534528.97	15534528.99	0.2677	0.2633
Mercury	37829-07-02 15:36 G	15538001.04	15538001.15	15538001.26	0.2651	0.0044
Mercury	37833-01-01 20:24 G	15539280.19	15539280.35	15539280.51	0.2675	0.0651
Mercury	37842-07-05 08:38 G	15542751.77	15542751.86	15542751.96	0.2655	0.1342
Mercury	37849-06-28 11:02 G	15545301.90	15545301.96	15545302.02	0.2646	0.2188
Mercury	37855-07-08 02:24 G	15547502.57	15547502.60	15547502.62	0.2659	0.2577
Mercury	37862-07-01 03:36 G	15550052.55	15550052.65	15550052.75	0.2647	0.0970
Mercury	37865-12-30 18:14 G	15551331.15	15551331.26	15551331.37	0.2676	0.1997
Mercury	37875-07-03 20:24 G	15554803.24	15554803.35	15554803.45	0.2651	0.0309
Mercury	37879-01-03 03:07 G	15556082.47	15556082.63	15556082.78	0.2674	0.1037
Mercury	37888-07-05 13:41 G	15559553.98	15559554.07	15559554.15	0.2656	0.1512
Mercury	37895-06-29 15:36 G	15562104.08	15562104.15	15562104.23	0.2645	0.1874
Mercury	37908-07-02 08:09 G	15566854.74	15566854.84	15566854.94	0.2648	0.0750
Mercury	37912-01-02 01:12 G	15568133.41	15568133.55	15568133.69	0.2677	0.1392
Mercury	37921-07-05 00:57 G	15571605.44	15571605.54	15571605.65	0.2652	0.0496

Mercury	37925-01-04 09:36 G	15572884.78	15572884.90	15572885.03	0.2673	0.1681
Mercury	37934-07-07 18:29 G	15576356.19	15576356.27	15576356.34	0.2657	0.1871
Venus	37937-04-28 09:07 G	15577381.74	15577381.88	15577382.02	0.2669	0.1033
Mercury	37941-06-30 20:24 G	15578906.27	15578906.35	15578906.43	0.2646	0.1715
Venus	37945-04-26 01:26 G	15580301.46	15580301.56	15580301.67	0.2664	0.1997
Mercury	37954-07-03 12:43 G	15583656.93	15583657.03	15583657.14	0.2649	0.0451
Mercury	37958-01-02 07:55 G	15584935.68	15584935.83	15584935.99	0.2676	0.0891
Mercury	37967-07-06 05:45 G	15588407.64	15588407.74	15588407.84	0.2653	0.0778
Mercury	37971-01-05 16:33 G	15589687.10	15589687.19	15589687.28	0.2673	0.2220
Mercury	37980-07-07 23:17 G	15593158.40	15593158.47	15593158.53	0.2658	0.2070
Mercury	37987-07-02 00:57 G	15595708.44	15595708.54	15595708.63	0.2647	0.1381
Mercury	38000-07-03 17:31 G	15600459.12	15600459.23	15600459.34	0.2649	0.0280

39TH MILLENNIUM CE

This is a list of transits visible from Moon in the 39th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	38004-01-03 14:38 G	15601737.94	15601738.11	15601738.28	0.2674	0.0190		
Mercury	38013-07-06 10:33 G	15605209.84	15605209.94	15605210.04	0.2655	0.1069		
Mercury	38020-06-29 12:57 G	15607759.99	15607760.04	15607760.09	0.2646	0.2318		
Mercury	38026-07-09 03:50 G	15609960.62	15609960.66	15609960.71	0.2658	0.2376		
Mercury	38033-07-02 05:31 G	15612510.63	15612510.73	15612510.82	0.2647	0.1252		
Mercury	38046-07-04 22:19 G	15617261.32	15617261.43	15617261.53	0.2650	0.0133		
Mercury	38050-01-03 21:36 G	15618540.23	15618540.40	15618540.56	0.2673	0.0198		

Venus	38050-10-28 11:31 G	15618837.82	15618837.98	15618838.13	0.2662	0.0926
Mercury	38059-07-07 15:21 G	15622012.05	15622012.14	15622012.23	0.2656	0.1265
Mercury	38066-06-30 17:45 G	15624562.18	15624562.24	15624562.30	0.2646	0.2160
Mercury	38072-07-09 08:53 G	15626762.87	15626762.87	15626762.87	0.2658	0.2651
Mercury	38079-07-03 10:05 G	15629312.82	15629312.92	15629313.02	0.2647	0.0904
Mercury	38083-01-01 19:26 G	15630591.23	15630591.31	15630591.38	0.2676	0.2350
Mercury	38092-07-05 02:53 G	15634063.52	15634063.62	15634063.73	0.2651	0.0238
Mercury	38096-01-05 04:19 G	15635342.53	15635342.68	15635342.84	0.2673	0.0998
Mercury	38105-07-08 20:09 G	15638814.25	15638814.34	15638814.42	0.2656	0.1622
Mercury	38112-07-01 22:05 G	15641364.35	15641364.42	15641364.50	0.2646	0.1888
Mercury	38125-07-04 14:53 G	15646115.01	15646115.12	15646115.22	0.2647	0.0754
Mercury	38129-01-03 02:09 G	15647393.46	15647393.59	15647393.72	0.2675	0.1617
Mercury	38138-07-07 07:41 G	15650865.71	15650865.82	15650865.92	0.2653	0.0593
Mercury	38142-01-06 11:02 G	15652144.82	15652144.96	15652145.11	0.2674	0.1347
Mercury	38151-07-10 00:57 G	15655616.46	15655616.54	15655616.62	0.2656	0.1784
Mercury	38158-07-03 02:38 G	15658166.53	15658166.61	15658166.70	0.2646	0.1653
Mercury	38171-07-05 19:26 G	15662917.20	15662917.31	15662917.42	0.2648	0.0427
Mercury	38175-01-04 09:07 G	15664195.73	15664195.88	15664196.03	0.2674	0.1125
Venus	38180-04-29 02:53 G	15666137.46	15666137.62	15666137.78	0.2662	0.0671
Mercury	38184-07-07 12:29 G	15667667.91	15667668.02	15667668.12	0.2654	0.0748
Mercury	38188-01-07 17:45 G	15668947.13	15668947.24	15668947.34	0.2673	0.2071
Mercury	38191-07-01 14:53 G	15670218.10	15670218.12	15670218.15	0.2647	0.2551
Mercury	38197-07-10 05:45 G	15672418.68	15672418.74	15672418.80	0.2657	0.2168
Mercury	38204-07-04 07:26 G	15674968.72	15674968.81	15674968.90	0.2646	0.1442
Mercury	38217-07-07 00:00 G	15679719.40	15679719.50	15679719.61	0.2650	0.0233
Mercury	38221-01-05 16:05 G	15680998.00	15680998.17	15680998.33	0.2674	0.0484
Mercury	38230-07-09 17:02 G	15684470.12	15684470.21	15684470.31	0.2654	0.1095
Mercury	38234-01-09 00:14 G	15685749.45	15685749.51	15685749.57	0.2673	0.2460
Mercury	38237-07-02 19:26 G	15687020.27	15687020.31	15687020.36	0.2646	0.2408
Mercury	38243-07-12 10:33 G	15689220.90	15689220.94	15689220.99	0.2658	0.2347

Mercury	38250-07-05 12:00 G	15691770.91	15691771.00	15691771.10	0.2646	0.1134
Mercury	38263-07-08 04:48 G	15696521.59	15696521.70	15696521.81	0.2651	0.0023
Mercury	38267-01-06 22:48 G	15697800.28	15697800.45	15697800.61	0.2674	0.0094
Mercury	38276-07-09 21:50 G	15701272.32	15701272.41	15701272.51	0.2655	0.1299
Mercury	38283-07-04 00:14 G	15703822.44	15703822.51	15703822.57	0.2646	0.2063
Venus	38285-11-01 10:48 G	15704673.84	15704673.95	15704674.05	0.2661	0.2004
Venus	38293-10-30 00:29 G	15707593.39	15707593.52	15707593.64	0.2666	0.1587
Mercury	38296-07-05 16:48 G	15708573.10	15708573.20	15708573.30	0.2647	0.0974
Mercury	38300-01-04 20:38 G	15709851.28	15709851.36	15709851.43	0.2676	0.2370
Mercury	38309-07-09 09:21 G	15713323.79	15713323.89	15713324.00	0.2652	0.0344
Mercury	38313-01-08 05:17 G	15714602.56	15714602.72	15714602.89	0.2674	0.0562
Mercury	38322-07-12 02:38 G	15718074.53	15718074.61	15718074.70	0.2656	0.1591
Mercury	38329-07-05 04:48 G	15720624.63	15720624.70	15720624.77	0.2645	0.1923
Mercury	38342-07-07 21:22 G	15725375.28	15725375.39	15725375.49	0.2649	0.0631
Mercury	38346-01-06 03:22 G	15726653.54	15726653.64	15726653.75	0.2676	0.2015
Mercury	38355-07-10 14:10 G	15730125.99	15730126.09	15730126.20	0.2652	0.0512
Mercury	38359-01-09 12:00 G	15731404.85	15731405.00	15731405.15	0.2673	0.1263
Mercury	38368-07-12 07:26 G	15734876.74	15734876.81	15734876.89	0.2657	0.1891
Mercury	38375-07-06 09:22 G	15737426.81	15737426.89	15737426.98	0.2646	0.1583
Mercury	38388-07-08 01:55 G	15742177.48	15742177.58	15742177.69	0.2649	0.0508
Mercury	38392-01-07 10:05 G	15743455.78	15743455.92	15743456.07	0.2675	0.1229
Mercury	38401-07-10 18:58 G	15746928.19	15746928.29	15746928.39	0.2653	0.0868
Mercury	38405-01-09 18:58 G	15748207.16	15748207.29	15748207.42	0.2673	0.1643
Mercury	38408-07-03 21:36 G	15749478.37	15749478.40	15749478.42	0.2646	0.2572
Mercury	38414-07-13 12:14 G	15751678.95	15751679.01	15751679.08	0.2658	0.2090
Mercury	38421-07-06 14:10 G	15754229.00	15754229.09	15754229.18	0.2647	0.1423
Venus	38423-05-02 09:50 G	15754893.77	15754893.91	15754894.05	0.2673	0.1053
Venus	38431-04-30 04:48 G	15757813.60	15757813.70	15757813.80	0.2671	0.1998
Mercury	38434-07-09 06:43 G	15758979.67	15758979.78	15758979.89	0.2649	0.0144
Mercury	38438-01-07 16:48 G	15760258.05	15760258.20	15760258.36	0.2674	0.0862

Mercury	38447-07-11 23:46 G	15763730.39	15763730.49	15763730.59	0.2655	0.1022
Mercury	38451-01-11 01:41 G	15765009.51	15765009.57	15765009.64	0.2673	0.2434
Mercury	38454-07-05 02:10 G	15766280.54	15766280.59	15766280.64	0.2646	0.2315
Mercury	38460-07-13 17:02 G	15768481.17	15768481.21	15768481.25	0.2657	0.2441
Mercury	38467-07-07 18:43 G	15771031.18	15771031.28	15771031.37	0.2647	0.1158
Mercury	38480-07-09 11:17 G	15775781.87	15775781.97	15775782.08	0.2650	0.0111
Mercury	38484-01-08 23:46 G	15777060.32	15777060.49	15777060.65	0.2673	0.0146
Mercury	38493-07-12 04:34 G	15780532.60	15780532.69	15780532.78	0.2656	0.1399
Mercury	38500-07-06 06:58 G	15783082.72	15783082.79	15783082.85	0.2646	0.2110
Mercury	38506-07-15 22:05 G	15785283.40	15785283.42	15785283.43	0.2657	0.2621
Mercury	38513-07-08 23:17 G	15787833.37	15787833.47	15787833.57	0.2647	0.0909
Mercury	38526-07-11 16:05 G	15792584.06	15792584.17	15792584.28	0.2651	0.0339
Venus	38528-11-03 19:26 G	15793430.24	15793430.31	15793430.37	0.2670	0.2403
Mercury	38530-01-10 06:43 G	15793862.61	15793862.78	15793862.94	0.2673	0.0345
Venus	38536-11-01 12:14 G	15796349.87	15796350.01	15796350.16	0.2665	0.0980
Mercury	38539-07-14 09:22 G	15797334.80	15797334.89	15797334.97	0.2656	0.1550
Mercury	38546-07-07 11:31 G	15799884.90	15799884.98	15799885.05	0.2646	0.1818
Mercury	38559-07-10 03:50 G	15804635.56	15804635.66	15804635.77	0.2647	0.0697
Mercury	38563-01-08 04:19 G	15805913.58	15805913.68	15805913.78	0.2674	0.2106
Mercury	38572-07-11 20:53 G	15809386.26	15809386.37	15809386.47	0.2653	0.0577
Mercury	38576-01-11 13:26 G	15810664.90	15810665.06	15810665.21	0.2673	0.0973
Mercury	38585-07-14 14:10 G	15814137.01	15814137.09	15814137.16	0.2656	0.1909
Mercury	38592-07-07 16:05 G	15816687.08	15816687.17	15816687.25	0.2646	0.1678
Mercury	38605-07-11 08:38 G	15821437.75	15821437.86	15821437.97	0.2648	0.0384
Mercury	38609-01-09 11:17 G	15822715.84	15822715.97	15822716.10	0.2674	0.1672
Mercury	38618-07-14 01:26 G	15826188.46	15826188.56	15826188.67	0.2654	0.0811
Mercury	38622-01-12 19:55 G	15827467.20	15827467.33	15827467.47	0.2674	0.1529
Mercury	38625-07-07 04:19 G	15828738.66	15828738.68	15828738.69	0.2647	0.2594
Mercury	38631-07-16 18:58 G	15830939.23	15830939.29	15830939.35	0.2657	0.2127
Mercury	38638-07-09 20:38 G	15833489.27	15833489.36	15833489.45	0.2646	0.1320

Mercury	38651-07-12 13:12 G	15838239.95	15838240.05	15838240.16	0.2650	0.0235
Mercury	38655-01-10 18:14 G	15839518.10	15839518.26	15839518.42	0.2674	0.0888
Mercury	38664-07-14 06:14 G	15842990.66	15842990.76	15842990.86	0.2654	0.1109
Venus	38666-05-04 10:48 G	15843649.79	15843649.95	15843650.12	0.2661	0.0586
Mercury	38668-01-14 02:38 G	15844269.50	15844269.61	15844269.72	0.2673	0.1975
Mercury	38671-07-08 08:53 G	15845540.81	15845540.87	15845540.92	0.2646	0.2281
Mercury	38677-07-16 23:46 G	15847741.45	15847741.49	15847741.53	0.2658	0.2415
Mercury	38684-07-10 01:12 G	15850291.46	15850291.55	15850291.65	0.2646	0.1189
Mercury	38697-07-12 18:00 G	15855042.14	15855042.25	15855042.35	0.2651	0.0152
Mercury	38701-01-12 00:58 G	15856320.38	15856320.54	15856320.70	0.2674	0.0536
Mercury	38710-07-16 11:02 G	15859792.87	15859792.96	15859793.05	0.2654	0.1312
Mercury	38717-07-09 13:26 G	15862342.99	15862343.06	15862343.12	0.2646	0.2103
Mercury	38730-07-12 06:00 G	15867093.64	15867093.75	15867093.85	0.2647	0.0850
Mercury	38743-07-14 22:34 G	15871844.34	15871844.44	15871844.55	0.2651	0.0279
Mercury	38747-01-13 07:26 G	15873122.65	15873122.81	15873122.98	0.2673	0.0215
Mercury	38756-07-16 15:50 G	15876595.08	15876595.16	15876595.25	0.2656	0.1680
Mercury	38763-07-10 18:00 G	15879145.17	15879145.25	15879145.33	0.2645	0.1826
Venus	38771-11-06 14:24 G	15882186.01	15882186.10	15882186.19	0.2658	0.2253
Mercury	38776-07-12 10:34 G	15883895.83	15883895.94	15883896.04	0.2649	0.0684
Venus	38779-11-04 01:26 G	15885105.47	15885105.56	15885105.65	0.2661	0.2224
Mercury	38780-01-11 05:31 G	15885173.66	15885173.73	15885173.81	0.2675	0.2353
Mercury	38789-07-15 03:22 G	15888646.54	15888646.64	15888646.75	0.2652	0.0639
Mercury	38793-01-13 14:10 G	15889924.93	15889925.09	15889925.26	0.2673	0.0585
Mercury	38802-07-17 20:38 G	15893397.29	15893397.36	15893397.44	0.2657	0.1840
Mercury	38809-07-10 22:34 G	15895947.36	15895947.44	15895947.53	0.2646	0.1588
Mercury	38822-07-13 15:07 G	15900698.02	15900698.13	15900698.24	0.2649	0.0405
Mercury	38826-01-11 12:14 G	15901975.89	15901976.01	15901976.13	0.2675	0.1861
Mercury	38835-07-16 08:10 G	15905448.74	15905448.84	15905448.94	0.2653	0.0801
Mercury	38839-01-14 21:07 G	15906727.23	15906727.38	15906727.52	0.2673	0.1318
Mercury	38842-07-09 10:48 G	15907998.91	15907998.95	15907998.98	0.2646	0.2486

Mercury	38848-07-18 01:26 G	15910199.50	15910199.56	15910199.62	0.2657	0.2213
Mercury	38855-07-12 03:07 G	15912749.54	15912749.63	15912749.73	0.2647	0.1390
Mercury	38868-07-13 19:55 G	15917500.22	15917500.33	15917500.43	0.2649	0.0179
Mercury	38872-01-12 18:58 G	15918778.14	15918778.29	15918778.43	0.2674	0.1329
Mercury	38881-07-16 12:58 G	15922250.94	15922251.04	15922251.14	0.2655	0.1130
Mercury	38885-01-15 03:50 G	15923529.54	15923529.66	15923529.79	0.2673	0.1772
Mercury	38888-07-09 15:22 G	15924801.10	15924801.14	15924801.19	0.2646	0.2344
Mercury	38894-07-19 06:14 G	15927001.71	15927001.76	15927001.81	0.2657	0.2368
Mercury	38901-07-13 07:41 G	15929551.73	15929551.82	15929551.92	0.2647	0.1087
Venus	38909-05-06 09:50 G	15932405.77	15932405.91	15932406.06	0.2675	0.0909
Mercury	38914-07-16 00:29 G	15934302.42	15934302.52	15934302.63	0.2650	0.0133
Mercury	38918-01-14 01:55 G	15935580.41	15935580.58	15935580.74	0.2673	0.0644
Mercury	38927-07-18 17:46 G	15939053.15	15939053.24	15939053.33	0.2656	0.1367
Mercury	38931-01-17 10:34 G	15940331.87	15940331.94	15940332.01	0.2674	0.2372
Mercury	38934-07-11 19:55 G	15941603.26	15941603.33	15941603.40	0.2646	0.1999
Mercury	38947-07-14 12:29 G	15946353.92	15946354.02	15946354.12	0.2647	0.0941
Mercury	38960-07-16 05:17 G	15951104.61	15951104.72	15951104.83	0.2652	0.0384
Mercury	38964-01-15 08:53 G	15952382.70	15952382.87	15952383.04	0.2673	0.0200
Mercury	38973-07-18 22:19 G	15955855.35	15955855.43	15955855.52	0.2656	0.1623
Mercury	38980-07-12 00:29 G	15958405.45	15958405.52	15958405.60	0.2646	0.1870
Mercury	38993-07-14 17:02 G	15963156.11	15963156.21	15963156.32	0.2647	0.0584

40TH MILLENNIUM CE

This is a list of transits visible from Moon in the 40th millennium CE.

PLANET	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
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TRANSIT

TIME

Mercury	39006-07-18 10:05 G	15967906.81	15967906.92	15967907.02	0.2653	0.0553
Mercury	39010-01-16 15:36 G	15969184.98	15969185.15	15969185.31	0.2673	0.0540
Venus	39014-11-08 16:05 G	15970942.06	15970942.17	15970942.29	0.2669	0.1730
Mercury	39019-07-21 03:07 G	15972657.56	15972657.63	15972657.71	0.2656	0.1917
Venus	39022-11-06 11:02 G	15973861.82	15973861.96	15973862.10	0.2667	0.1077
Mercury	39026-07-14 05:02 G	15975207.63	15975207.71	15975207.80	0.2646	0.1559
Mercury	39039-07-16 21:50 G	15979958.30	15979958.41	15979958.52	0.2648	0.0441
Mercury	39043-01-14 13:12 G	15981235.94	15981236.05	15981236.16	0.2673	0.2013
Mercury	39052-07-18 14:38 G	15984709.01	15984709.11	15984709.21	0.2654	0.0920
Mercury	39056-01-17 22:05 G	15985987.26	15985987.42	15985987.58	0.2674	0.0883
Mercury	39059-07-12 17:17 G	15987259.19	15987259.22	15987259.26	0.2647	0.2509
Mercury	39065-07-21 08:10 G	15989459.77	15989459.84	15989459.90	0.2657	0.2132
Mercury	39072-07-14 09:50 G	15992009.82	15992009.91	15992010.00	0.2646	0.1373
Mercury	39085-07-17 02:24 G	15996760.50	15996760.60	15996760.71	0.2650	0.0135
Mercury	39089-01-14 20:24 G	15998038.21	15998038.35	15998038.48	0.2673	0.1593
Mercury	39098-07-19 19:26 G	16001511.21	16001511.31	16001511.41	0.2654	0.1053
Mercury	39102-01-19 04:48 G	16002789.56	16002789.70	16002789.83	0.2673	0.1628
Mercury	39105-07-13 21:50 G	16004061.36	16004061.41	16004061.47	0.2646	0.2267
Mercury	39111-07-23 12:58 G	16006262.01	16006262.04	16006262.07	0.2658	0.2501
Mercury	39118-07-16 14:24 G	16008812.01	16008812.10	16008812.20	0.2646	0.1091
Mercury	39131-07-19 07:12 G	16013562.69	16013562.80	16013562.91	0.2651	0.0092
Mercury	39135-01-17 02:53 G	16014840.47	16014840.62	16014840.78	0.2674	0.0915
Mercury	39144-07-21 00:14 G	16018313.42	16018313.51	16018313.60	0.2655	0.1430
Mercury	39148-01-20 11:31 G	16019591.88	16019591.98	16019592.09	0.2673	0.2008
Mercury	39151-07-15 02:38 G	16020863.54	16020863.61	16020863.67	0.2646	0.2090
Venus	39152-05-08 17:46 G	16021162.08	16021162.24	16021162.39	0.2663	0.0865
Mercury	39157-07-23 17:46 G	16023064.24	16023064.24	16023064.24	0.2658	0.2654
Venus	39160-05-06 04:48 G	16024081.68	16024081.70	16024081.72	0.2663	0.2636

Mercury	39164-07-16 19:12 G	16025614.19	16025614.30	16025614.40	0.2647	0.0855
Mercury	39177-07-19 11:46 G	16030364.89	16030364.99	16030365.10	0.2652	0.0371
Mercury	39181-01-17 09:36 G	16031642.73	16031642.90	16031643.06	0.2673	0.0420
Mercury	39190-07-22 05:02 G	16035115.63	16035115.71	16035115.80	0.2656	0.1611
Mercury	39197-07-15 07:12 G	16037665.72	16037665.80	16037665.88	0.2645	0.1752
Mercury	39210-07-17 23:46 G	16042416.38	16042416.49	16042416.59	0.2649	0.0659
Mercury	39223-07-20 16:34 G	16047167.09	16047167.19	16047167.29	0.2652	0.0602
Mercury	39227-01-18 16:19 G	16048445.01	16048445.18	16048445.35	0.2673	0.0107
Mercury	39236-07-22 09:50 G	16051917.84	16051917.91	16051917.98	0.2657	0.1939
Mercury	39243-07-16 12:00 G	16054467.91	16054468.00	16054468.08	0.2646	0.1616
Mercury	39256-07-18 04:19 G	16059218.57	16059218.68	16059218.79	0.2649	0.0334
Venus	39257-11-09 19:41 G	16059698.22	16059698.32	16059698.42	0.2657	0.2097
Mercury	39260-01-16 14:24 G	16060496.04	16060496.10	16060496.16	0.2674	0.2459
Venus	39265-11-07 05:31 G	16062617.66	16062617.73	16062617.80	0.2656	0.2406
Mercury	39269-07-20 21:22 G	16063969.29	16063969.39	16063969.49	0.2653	0.0857
Mercury	39273-01-18 23:17 G	16065247.31	16065247.47	16065247.63	0.2673	0.0795
Mercury	39276-07-14 00:00 G	16066519.47	16066519.50	16066519.52	0.2646	0.2552
Mercury	39282-07-23 14:38 G	16068720.05	16068720.11	16068720.17	0.2658	0.2170
Mercury	39289-07-16 16:34 G	16071270.09	16071270.19	16071270.28	0.2647	0.1280
Mercury	39302-07-20 09:07 G	16076020.77	16076020.88	16076020.98	0.2649	0.0203
Mercury	39306-01-17 20:53 G	16077298.24	16077298.37	16077298.50	0.2673	0.1713
Mercury	39315-07-23 02:10 G	16080771.49	16080771.59	16080771.68	0.2655	0.1175
Mercury	39319-01-21 06:14 G	16082049.61	16082049.76	16082049.91	0.2673	0.1236
Mercury	39322-07-16 04:34 G	16083321.64	16083321.69	16083321.75	0.2646	0.2222
Mercury	39328-07-24 19:26 G	16085522.27	16085522.31	16085522.35	0.2657	0.2439
Mercury	39335-07-18 21:07 G	16088072.28	16088072.38	16088072.47	0.2647	0.1149
Mercury	39348-07-20 13:41 G	16092822.97	16092823.07	16092823.18	0.2650	0.0188
Mercury	39352-01-19 03:50 G	16094100.52	16094100.66	16094100.81	0.2672	0.1349
Mercury	39361-07-23 06:58 G	16097573.70	16097573.79	16097573.88	0.2656	0.1346
Mercury	39365-01-21 12:43 G	16098851.92	16098852.03	16098852.14	0.2674	0.1948

Mercury	39368-07-16 09:22 G	16100123.82	16100123.89	16100123.95	0.2646	0.2041
Mercury	39381-07-19 01:41 G	16104874.47	16104874.57	16104874.67	0.2647	0.0819
Mercury	39394-07-21 18:29 G	16109625.16	16109625.27	16109625.38	0.2652	0.0319
Venus	39395-05-10 11:02 G	16109917.81	16109917.96	16109918.12	0.2674	0.0349
Mercury	39398-01-19 10:48 G	16110902.78	16110902.95	16110903.11	0.2673	0.0556
Mercury	39407-07-25 11:31 G	16114375.90	16114375.98	16114376.07	0.2656	0.1713
Mercury	39411-01-23 19:26 G	16115654.22	16115654.31	16115654.39	0.2675	0.2293
Mercury	39414-07-18 13:41 G	16116926.00	16116926.07	16116926.15	0.2646	0.1799
Mercury	39427-07-21 06:14 G	16121676.66	16121676.76	16121676.87	0.2647	0.0644
Mercury	39440-07-22 23:17 G	16126427.36	16126427.47	16126427.57	0.2654	0.0678
Mercury	39444-01-21 17:31 G	16127705.07	16127705.23	16127705.40	0.2673	0.0168
Mercury	39453-07-25 16:34 G	16131178.11	16131178.19	16131178.26	0.2656	0.1865
Mercury	39460-07-18 18:14 G	16133728.18	16133728.26	16133728.35	0.2646	0.1542
Mercury	39473-07-21 11:02 G	16138478.85	16138478.96	16138479.07	0.2648	0.0351
Mercury	39477-01-18 15:22 G	16139756.10	16139756.14	16139756.17	0.2673	0.2609
Mercury	39486-07-24 03:50 G	16143229.56	16143229.66	16143229.77	0.2654	0.0848
Mercury	39490-01-22 00:14 G	16144507.34	16144507.51	16144507.67	0.2674	0.0492
Mercury	39493-07-17 06:43 G	16145779.74	16145779.78	16145779.82	0.2647	0.2433
Mercury	39499-07-26 21:22 G	16147980.33	16147980.39	16147980.44	0.2657	0.2243
Venus	39500-11-12 13:26 G	16148453.93	16148454.06	16148454.18	0.2666	0.1499
Mercury	39506-07-20 23:02 G	16150530.37	16150530.46	16150530.55	0.2646	0.1358
Venus	39508-11-10 08:24 G	16151373.74	16151373.85	16151373.96	0.2668	0.1818
Mercury	39519-07-23 15:36 G	16155281.05	16155281.15	16155281.26	0.2650	0.0126
Mercury	39523-01-20 22:19 G	16156558.33	16156558.43	16156558.53	0.2673	0.2091
Mercury	39532-07-25 08:38 G	16160031.76	16160031.86	16160031.96	0.2654	0.1161
Mercury	39536-01-24 06:43 G	16161309.63	16161309.78	16161309.94	0.2674	0.1010
Mercury	39539-07-19 11:17 G	16162581.92	16162581.97	16162582.02	0.2646	0.2304
Mercury	39545-07-28 02:10 G	16164782.55	16164782.59	16164782.63	0.2658	0.2430
Mercury	39552-07-21 03:36 G	16167332.55	16167332.65	16167332.75	0.2646	0.1027
Mercury	39565-07-23 20:24 G	16172083.24	16172083.35	16172083.46	0.2652	0.0101

Mercury	39569-01-21 05:02 G	16173360.57	16173360.71	16173360.85	0.2673	0.1414
Mercury	39578-07-26 13:26 G	16176833.97	16176834.06	16176834.15	0.2655	0.1391
Mercury	39582-01-24 13:41 G	16178111.94	16178112.07	16178112.21	0.2674	0.1562
Mercury	39585-07-19 15:50 G	16179384.09	16179384.16	16179384.23	0.2646	0.1968
Mercury	39598-07-22 08:24 G	16184134.75	16184134.85	16184134.95	0.2647	0.0888
Mercury	39611-07-25 00:58 G	16188885.44	16188885.54	16188885.65	0.2652	0.0436
Mercury	39615-01-22 11:46 G	16190162.83	16190162.99	16190163.14	0.2673	0.1040
Mercury	39624-07-26 18:14 G	16193636.18	16193636.26	16193636.35	0.2656	0.1658
Mercury	39628-01-25 20:38 G	16194914.27	16194914.36	16194914.45	0.2674	0.2226
Mercury	39631-07-20 20:24 G	16196186.27	16196186.35	16196186.43	0.2645	0.1826
Venus	39638-05-12 22:48 G	16198674.31	16198674.45	16198674.58	0.2668	0.1393
Mercury	39644-07-22 12:58 G	16200936.93	16200937.04	16200937.14	0.2649	0.0544
Venus	39646-05-10 11:31 G	16201593.91	16201593.98	16201594.05	0.2665	0.2399
Mercury	39657-07-25 05:46 G	16205687.64	16205687.74	16205687.85	0.2652	0.0586
Mercury	39661-01-22 18:14 G	16206965.10	16206965.26	16206965.43	0.2673	0.0277
Mercury	39670-07-27 23:02 G	16210438.39	16210438.46	16210438.53	0.2657	0.1981
Mercury	39674-01-26 03:36 G	16211716.64	16211716.65	16211716.66	0.2675	0.2665
Mercury	39677-07-21 00:58 G	16212988.46	16212988.54	16212988.63	0.2646	0.1498
Mercury	39690-07-23 17:31 G	16217739.13	16217739.23	16217739.34	0.2649	0.0417
Mercury	39703-07-27 10:34 G	16222489.84	16222489.94	16222490.04	0.2653	0.0951
Mercury	39707-01-25 01:26 G	16223767.39	16223767.56	16223767.73	0.2673	0.0100
Mercury	39710-07-20 13:12 G	16225040.01	16225040.05	16225040.08	0.2646	0.2487
Mercury	39716-07-29 03:50 G	16227240.60	16227240.66	16227240.72	0.2657	0.2153
Mercury	39723-07-23 05:46 G	16229790.64	16229790.74	16229790.83	0.2647	0.1321
Mercury	39736-07-24 22:19 G	16234541.32	16234541.43	16234541.54	0.2649	0.0080
Mercury	39740-01-22 22:48 G	16235818.38	16235818.45	16235818.53	0.2673	0.2397
Venus	39743-11-14 23:46 G	16237210.37	16237210.49	16237210.61	0.2659	0.1805
Mercury	39749-07-27 15:22 G	16239292.04	16239292.14	16239292.24	0.2655	0.1103
Venus	39751-11-12 11:17 G	16240129.85	16240129.97	16240130.09	0.2654	0.1815
Mercury	39753-01-25 08:10 G	16240569.68	16240569.84	16240570.00	0.2673	0.0879

Mercury	39756-07-20 17:46 G	16241842.19	16241842.24	16241842.30	0.2646	0.2208
Mercury	39762-07-30 08:38 G	16244042.83	16244042.86	16244042.89	0.2657	0.2511
Mercury	39769-07-23 10:19 G	16246592.83	16246592.93	16246593.02	0.2647	0.1083
Mercury	39782-07-26 02:53 G	16251343.52	16251343.62	16251343.73	0.2650	0.0160
Mercury	39786-01-23 05:46 G	16252620.62	16252620.74	16252620.87	0.2672	0.1770
Mercury	39795-07-28 20:10 G	16256094.25	16256094.34	16256094.42	0.2656	0.1470
Mercury	39799-01-26 14:53 G	16257371.97	16257372.12	16257372.27	0.2674	0.1262
Mercury	39802-07-22 22:34 G	16258644.37	16258644.44	16258644.50	0.2646	0.2029
Mercury	39815-07-25 14:53 G	16263395.02	16263395.12	16263395.22	0.2648	0.0809
Mercury	39828-07-27 07:41 G	16268145.71	16268145.82	16268145.93	0.2652	0.0408
Mercury	39832-01-25 12:58 G	16269422.88	16269423.04	16269423.19	0.2673	0.1168
Mercury	39841-07-30 00:43 G	16272896.45	16272896.53	16272896.62	0.2656	0.1633
Mercury	39845-01-27 21:36 G	16274174.28	16274174.40	16274174.51	0.2675	0.1910
Mercury	39848-07-23 03:07 G	16275446.55	16275446.63	16275446.71	0.2646	0.1718
Mercury	39861-07-25 19:41 G	16280197.21	16280197.32	16280197.42	0.2648	0.0624
Mercury	39874-07-28 12:29 G	16284947.91	16284948.02	16284948.12	0.2654	0.0667
Mercury	39878-01-25 19:41 G	16286225.16	16286225.32	16286225.48	0.2673	0.0659
Venus	39881-05-14 13:41 G	16287429.92	16287430.07	16287430.23	0.2671	0.0227
Mercury	39881-07-21 15:22 G	16287498.13	16287498.14	16287498.14	0.2647	0.2636
Mercury	39887-07-31 05:31 G	16289698.66	16289698.73	16289698.80	0.2656	0.1965
Mercury	39891-01-29 04:19 G	16290976.62	16290976.68	16290976.75	0.2675	0.2445
Mercury	39894-07-24 07:41 G	16292248.73	16292248.82	16292248.90	0.2646	0.1590
Mercury	39907-07-28 00:14 G	16296999.40	16296999.51	16296999.62	0.2648	0.0288
Mercury	39920-07-29 17:02 G	16301750.11	16301750.21	16301750.31	0.2654	0.0878
Mercury	39924-01-28 02:10 G	16303027.42	16303027.59	16303027.76	0.2674	0.0024
Mercury	39927-07-23 19:55 G	16304300.30	16304300.33	16304300.36	0.2647	0.2498
Mercury	39933-08-01 10:34 G	16306500.88	16306500.94	16306501.00	0.2657	0.2205
Mercury	39940-07-25 12:14 G	16309050.92	16309051.01	16309051.11	0.2646	0.1238
Mercury	39953-07-28 05:02 G	16313801.60	16313801.71	16313801.81	0.2650	0.0186
Mercury	39957-01-25 00:14 G	16315078.45	16315078.51	16315078.57	0.2673	0.2475

Mercury	39966-07-30 21:50 G	16318552.32	16318552.41	16318552.51	0.2654	0.1199
Mercury	39970-01-28 08:53 G	16319829.71	16319829.87	16319830.04	0.2674	0.0372
Mercury	39973-07-24 00:29 G	16321102.46	16321102.52	16321102.57	0.2646	0.2206
Mercury	39979-08-02 15:22 G	16323303.10	16323303.14	16323303.18	0.2658	0.2466
Mercury	39986-07-26 17:02 G	16325853.11	16325853.21	16325853.30	0.2646	0.1104
Venus	39986-11-16 12:58 G	16325965.90	16325966.04	16325966.18	0.2661	0.1186
Mercury	39999-07-29 09:36 G	16330603.79	16330603.90	16330604.01	0.2652	0.0214

41ST MILLENNIUM CE

This is a list of transits visible from Moon in the 41st millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	40003-01-26 06:58 G		16331880.69	16331880.79	16331880.89	0.2673	0.2123	
Mercury	40012-07-31 02:38 G		16335354.52	16335354.61	16335354.70	0.2655	0.1374	
Mercury	40016-01-29 15:50 G		16336632.01	16336632.16	16336632.31	0.2674	0.1173	
Mercury	40019-07-25 05:02 G		16337904.64	16337904.71	16337904.78	0.2646	0.2001	
Mercury	40032-07-26 21:36 G		16342655.29	16342655.40	16342655.50	0.2647	0.0778	
Mercury	40045-07-29 14:10 G		16347405.99	16347406.09	16347406.20	0.2652	0.0354	
Mercury	40049-01-26 13:26 G		16348682.92	16348683.06	16348683.20	0.2673	0.1435	
Mercury	40058-08-01 07:26 G		16352156.73	16352156.81	16352156.89	0.2656	0.1747	
Mercury	40062-01-29 22:48 G		16353434.32	16353434.45	16353434.59	0.2674	0.1529	
Mercury	40065-07-25 09:36 G		16354706.82	16354706.90	16354706.98	0.2646	0.1760	
Mercury	40078-07-28 02:10 G		16359457.48	16359457.59	16359457.69	0.2649	0.0589	
Mercury	40091-07-30 18:58 G		16364208.19	16364208.29	16364208.39	0.2652	0.0703	

Mercury	40095-01-27 20:10 G	16365485.19	16365485.34	16365485.50	0.2673	0.0977
Mercury	40104-08-02 12:14 G	16368958.94	16368959.01	16368959.09	0.2657	0.1903
Mercury	40108-02-01 05:31 G	16370236.65	16370236.73	16370236.81	0.2676	0.2300
Mercury	40111-07-27 14:24 G	16371509.01	16371509.10	16371509.18	0.2646	0.1492
Venus	40124-05-17 01:12 G	16376186.41	16376186.55	16376186.68	0.2675	0.1379
Mercury	40124-07-29 06:43 G	16376259.68	16376259.78	16376259.89	0.2650	0.0348
Mercury	40137-07-31 23:46 G	16381010.39	16381010.49	16381010.59	0.2653	0.0881
Mercury	40141-01-29 03:22 G	16382287.47	16382287.64	16382287.80	0.2673	0.0331
Mercury	40144-07-25 02:24 G	16383560.56	16383560.60	16383560.64	0.2646	0.2396
Mercury	40150-08-03 17:02 G	16385761.16	16385761.21	16385761.26	0.2658	0.2267
Mercury	40157-07-27 18:58 G	16388311.19	16388311.29	16388311.38	0.2647	0.1321
Mercury	40170-07-30 11:31 G	16393061.87	16393061.98	16393062.09	0.2650	0.0089
Mercury	40183-08-02 04:34 G	16397812.60	16397812.69	16397812.79	0.2655	0.1183
Mercury	40187-01-30 10:19 G	16399089.76	16399089.93	16399090.09	0.2674	0.0265
Mercury	40190-07-26 07:12 G	16400362.74	16400362.80	16400362.85	0.2646	0.2265
Mercury	40196-08-03 21:50 G	16402563.37	16402563.41	16402563.45	0.2657	0.2434
Mercury	40203-07-29 23:31 G	16405113.38	16405113.48	16405113.58	0.2648	0.1001
Mercury	40216-07-31 16:19 G	16409864.07	16409864.18	16409864.28	0.2650	0.0173
Mercury	40220-01-29 07:41 G	16411140.73	16411140.82	16411140.91	0.2672	0.2220
Mercury	40229-08-03 09:22 G	16414614.80	16414614.89	16414614.98	0.2656	0.1447
Venus	40229-11-19 01:26 G	16414722.44	16414722.56	16414722.67	0.2661	0.1809
Mercury	40233-01-31 17:02 G	16415892.05	16415892.21	16415892.37	0.2675	0.0740
Mercury	40236-07-27 11:46 G	16417164.91	16417164.99	16417165.06	0.2646	0.1920
Venus	40237-11-16 15:22 G	16417642.00	16417642.14	16417642.28	0.2655	0.1433
Mercury	40249-07-30 04:05 G	16421915.57	16421915.67	16421915.77	0.2648	0.0870
Mercury	40262-08-01 20:53 G	16426666.27	16426666.37	16426666.48	0.2652	0.0466
Mercury	40266-01-29 14:38 G	16427942.99	16427943.11	16427943.23	0.2672	0.1855
Mercury	40275-08-04 14:10 G	16431417.00	16431417.09	16431417.17	0.2656	0.1669
Mercury	40279-02-01 23:31 G	16432694.34	16432694.48	16432694.62	0.2676	0.1434
Mercury	40282-07-28 16:19 G	16433967.10	16433967.18	16433967.25	0.2646	0.1785

Mercury	40295-07-31 08:53 G	16438717.76	16438717.87	16438717.97	0.2648	0.0519
Mercury	40308-08-03 01:41 G	16443468.47	16443468.57	16443468.67	0.2654	0.0611
Mercury	40312-01-31 21:36 G	16444745.24	16444745.40	16444745.55	0.2673	0.1069
Mercury	40321-08-05 18:43 G	16448219.22	16448219.28	16448219.35	0.2656	0.1989
Mercury	40325-02-03 06:29 G	16449496.65	16449496.77	16449496.89	0.2676	0.1808
Mercury	40328-07-29 20:53 G	16450769.28	16450769.37	16450769.45	0.2646	0.1502
Mercury	40341-08-01 13:26 G	16455519.95	16455520.06	16455520.17	0.2649	0.0371
Mercury	40354-08-04 06:14 G	16460270.67	16460270.76	16460270.86	0.2654	0.0986
Mercury	40358-02-01 04:05 G	16461547.51	16461547.67	16461547.84	0.2674	0.0720
Mercury	40361-07-28 09:07 G	16462820.84	16462820.88	16462820.92	0.2647	0.2443
Venus	40367-05-19 18:43 G	16464942.12	16464942.28	16464942.45	0.2667	0.0055
Mercury	40367-08-06 23:46 G	16465021.43	16465021.49	16465021.55	0.2657	0.2177
Mercury	40371-02-04 13:26 G	16466299.04	16466299.06	16466299.09	0.2676	0.2631
Mercury	40374-07-31 01:26 G	16467571.47	16467571.56	16467571.65	0.2646	0.1289
Mercury	40387-08-02 18:00 G	16472322.15	16472322.25	16472322.36	0.2651	0.0123
Mercury	40400-08-04 11:02 G	16477072.86	16477072.96	16477073.06	0.2654	0.1113
Mercury	40404-02-02 10:48 G	16478349.78	16478349.95	16478350.12	0.2674	0.0022
Mercury	40407-07-29 13:41 G	16479623.01	16479623.07	16479623.13	0.2647	0.2179
Mercury	40413-08-07 04:34 G	16481823.66	16481823.69	16481823.72	0.2658	0.2552
Mercury	40420-07-31 06:14 G	16484373.66	16484373.76	16484373.85	0.2647	0.1040
Mercury	40433-08-02 22:48 G	16489124.34	16489124.45	16489124.56	0.2652	0.0152
Mercury	40437-01-30 08:38 G	16490400.84	16490400.86	16490400.90	0.2673	0.2620
Mercury	40446-08-05 15:50 G	16493875.07	16493875.16	16493875.25	0.2655	0.1480
Mercury	40450-02-02 17:46 G	16495152.08	16495152.24	16495152.41	0.2674	0.0452
Mercury	40453-07-29 18:14 G	16496425.19	16496425.26	16496425.33	0.2646	0.2025
Mercury	40466-08-01 10:48 G	16501175.85	16501175.95	16501176.05	0.2648	0.0772
Venus	40472-11-19 14:53 G	16503477.97	16503478.12	16503478.28	0.2656	0.0669
Mercury	40479-08-04 03:36 G	16505926.54	16505926.65	16505926.75	0.2652	0.0431
Mercury	40483-01-31 15:22 G	16507203.03	16507203.14	16507203.25	0.2673	0.1986
Mercury	40492-08-05 20:38 G	16510677.28	16510677.36	16510677.45	0.2656	0.1677

Mercury	40496-02-04 00:43 G	16511954.38	16511954.53	16511954.69	0.2675	0.1124
Mercury	40499-07-30 22:48 G	16513227.37	16513227.45	16513227.53	0.2646	0.1682
Mercury	40512-08-02 15:22 G	16517978.04	16517978.14	16517978.25	0.2649	0.0604
Mercury	40525-08-05 08:10 G	16522728.74	16522728.84	16522728.95	0.2652	0.0679
Mercury	40529-02-01 22:19 G	16524005.29	16524005.43	16524005.56	0.2673	0.1575
Mercury	40532-07-29 11:02 G	16525278.95	16525278.96	16525278.97	0.2647	0.2628
Mercury	40538-08-08 01:26 G	16527479.49	16527479.56	16527479.63	0.2657	0.1980
Mercury	40542-02-05 07:41 G	16528756.70	16528756.82	16528756.95	0.2676	0.1697
Mercury	40545-08-01 03:36 G	16530029.56	16530029.65	16530029.73	0.2646	0.1551
Mercury	40558-08-03 19:55 G	16534780.23	16534780.33	16534780.44	0.2650	0.0279
Mercury	40571-08-06 12:58 G	16539530.94	16539531.04	16539531.14	0.2654	0.0899
Mercury	40575-02-03 05:17 G	16540807.56	16540807.72	16540807.88	0.2673	0.0795
Mercury	40578-07-30 15:36 G	16542081.11	16542081.15	16542081.19	0.2646	0.2473
Mercury	40584-08-08 06:14 G	16544281.71	16544281.76	16544281.82	0.2658	0.2235
Mercury	40588-02-06 14:24 G	16545559.01	16545559.10	16545559.20	0.2678	0.2168
Mercury	40591-08-02 08:10 G	16546831.74	16546831.84	16546831.93	0.2647	0.1217
Mercury	40604-08-05 00:43 G	16551582.42	16551582.53	16551582.64	0.2650	0.0135
Venus	40610-05-22 00:58 G	16553698.39	16553698.54	16553698.69	0.2680	0.0545
Mercury	40617-08-07 17:46 G	16556333.15	16556333.24	16556333.33	0.2655	0.1237
Mercury	40621-02-04 12:14 G	16557609.84	16557610.01	16557610.17	0.2674	0.0435
Mercury	40624-07-31 20:10 G	16558883.28	16558883.34	16558883.40	0.2646	0.2171
Mercury	40630-08-10 11:02 G	16561083.93	16561083.96	16561084.00	0.2657	0.2467
Mercury	40637-08-03 12:43 G	16563633.93	16563634.03	16563634.13	0.2648	0.1076
Mercury	40650-08-06 05:31 G	16568384.62	16568384.73	16568384.83	0.2650	0.0261
Mercury	40663-08-08 22:34 G	16573135.35	16573135.44	16573135.53	0.2656	0.1390
Mercury	40667-02-05 18:43 G	16574412.12	16574412.28	16574412.45	0.2675	0.0343
Mercury	40670-08-02 00:58 G	16575685.47	16575685.54	16575685.61	0.2646	0.1968
Mercury	40683-08-04 17:17 G	16580436.12	16580436.22	16580436.32	0.2648	0.0774
Mercury	40696-08-06 10:05 G	16585186.82	16585186.92	16585187.03	0.2652	0.0382
Mercury	40700-02-03 16:34 G	16586463.10	16586463.19	16586463.28	0.2672	0.2259

Mercury	40709-08-10 03:22 G	16589937.56	16589937.64	16589937.72	0.2656	0.1761
Mercury	40713-02-07 01:41 G	16591214.41	16591214.57	16591214.73	0.2676	0.0701
Venus	40715-11-24 00:58 G	16592234.43	16592234.54	16592234.65	0.2663	0.1812
Mercury	40716-08-03 05:31 G	16592487.65	16592487.73	16592487.81	0.2647	0.1748
Venus	40723-11-21 17:46 G	16595154.12	16595154.24	16595154.36	0.2657	0.1737
Mercury	40729-08-05 22:05 G	16597238.31	16597238.42	16597238.52	0.2648	0.0579
Mercury	40742-08-08 14:53 G	16601989.02	16601989.12	16601989.22	0.2654	0.0712
Mercury	40746-02-04 23:17 G	16603265.35	16603265.47	16603265.60	0.2673	0.1760
Mercury	40755-08-11 08:10 G	16606739.76	16606739.84	16606739.91	0.2656	0.1908
Mercury	40759-02-08 08:24 G	16608016.71	16608016.85	16608016.99	0.2676	0.1440
Mercury	40762-08-04 10:05 G	16609289.83	16609289.92	16609290.01	0.2647	0.1467
Mercury	40775-08-07 02:38 G	16614040.50	16614040.61	16614040.72	0.2649	0.0310
Mercury	40788-08-08 19:41 G	16618791.22	16618791.32	16618791.42	0.2655	0.0912
Mercury	40792-02-06 06:00 G	16620067.60	16620067.75	16620067.90	0.2674	0.1234
Mercury	40795-08-02 22:19 G	16621341.38	16621341.43	16621341.47	0.2647	0.2368
Mercury	40801-08-11 12:58 G	16623541.99	16623542.04	16623542.09	0.2657	0.2271
Mercury	40805-02-08 15:36 G	16624819.03	16624819.15	16624819.26	0.2677	0.1901
Mercury	40808-08-04 14:38 G	16626092.02	16626092.11	16626092.20	0.2647	0.1312
Mercury	40821-08-07 07:26 G	16630842.70	16630842.81	16630842.91	0.2651	0.0107
Mercury	40834-08-10 00:14 G	16635593.42	16635593.51	16635593.61	0.2655	0.1198
Mercury	40838-02-06 12:43 G	16636869.87	16636870.03	16636870.20	0.2674	0.0568
Mercury	40841-08-03 02:53 G	16638143.56	16638143.62	16638143.67	0.2647	0.2248
Mercury	40847-08-12 17:46 G	16640344.21	16640344.24	16640344.28	0.2658	0.2478
Mercury	40851-02-09 22:34 G	16641621.40	16641621.44	16641621.48	0.2678	0.2584
Venus	40853-05-23 00:58 G	16642454.38	16642454.54	16642454.71	0.2667	0.0714
Mercury	40854-08-05 19:26 G	16642894.21	16642894.31	16642894.41	0.2647	0.0972
Mercury	40867-08-08 12:00 G	16647644.89	16647645.00	16647645.11	0.2652	0.0138
Mercury	40880-08-10 05:02 G	16652395.62	16652395.71	16652395.80	0.2655	0.1452
Mercury	40884-02-07 19:41 G	16653672.16	16653672.32	16653672.49	0.2675	0.0157
Mercury	40887-08-04 07:26 G	16654945.74	16654945.81	16654945.88	0.2646	0.1918

Mercury	40900-08-07 00:00 G	16659696.40	16659696.50	16659696.60	0.2648	0.0838
Mercury	40913-08-09 16:48 G	16664447.09	16664447.20	16664447.30	0.2652	0.0485
Mercury	40926-08-12 10:05 G	16669197.83	16669197.92	16669198.00	0.2656	0.1687
Mercury	40930-02-09 02:53 G	16670474.45	16670474.62	16670474.78	0.2675	0.0642
Mercury	40933-08-05 12:00 G	16671747.92	16671748.00	16671748.08	0.2646	0.1764
Mercury	40946-08-08 04:34 G	16676498.59	16676498.69	16676498.80	0.2650	0.0499
Venus	40958-11-24 19:41 G	16680990.16	16680990.32	16680990.49	0.2652	0.0508
Mercury	40959-08-10 21:22 G	16681249.29	16681249.39	16681249.50	0.2653	0.0631
Mercury	40963-02-07 00:00 G	16682525.39	16682525.50	16682525.61	0.2673	0.1966
Mercury	40972-08-12 14:38 G	16686000.05	16686000.11	16686000.18	0.2657	0.2027
Mercury	40976-02-10 09:50 G	16687276.75	16687276.91	16687277.06	0.2677	0.1009
Mercury	40979-08-06 16:48 G	16688550.11	16688550.20	16688550.29	0.2646	0.1461
Mercury	40992-08-08 09:07 G	16693300.78	16693300.88	16693300.99	0.2650	0.0373

42ND MILLENNIUM CE

This is a list of transits visible from Moon in the 42nd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	41005-08-12 02:10 G		16698051.49	16698051.59	16698051.69	0.2654	0.0993	
Mercury	41009-02-08 06:58 G		16699327.66	16699327.79	16699327.93	0.2673	0.1552	
Mercury	41012-08-05 04:48 G		16700601.66	16700601.70	16700601.74	0.2646	0.2449	
Mercury	41018-08-14 19:26 G		16702802.25	16702802.31	16702802.37	0.2658	0.2178	
Mercury	41022-02-11 16:34 G		16704079.07	16704079.19	16704079.31	0.2678	0.1793	
Mercury	41025-08-07 21:22 G		16705352.29	16705352.39	16705352.48	0.2647	0.1260	

Mercury	41038-08-10 13:55 G	16710102.97	16710103.08	16710103.19	0.2650	0.0032
Mercury	41051-08-13 06:58 G	16714853.70	16714853.79	16714853.89	0.2655	0.1148
Mercury	41055-02-09 13:55 G	16716129.92	16716130.08	16716130.24	0.2674	0.0836
Mercury	41058-08-06 09:36 G	16717403.83	16717403.90	16717403.96	0.2646	0.2144
Mercury	41064-08-15 00:14 G	16719604.48	16719604.51	16719604.54	0.2657	0.2543
Mercury	41068-02-12 23:31 G	16720881.38	16720881.48	16720881.58	0.2679	0.2161
Mercury	41071-08-09 01:55 G	16722154.48	16722154.58	16722154.68	0.2648	0.1047
Mercury	41084-08-10 18:43 G	16726905.17	16726905.28	16726905.38	0.2651	0.0170
Venus	41096-05-25 00:29 G	16731210.37	16731210.52	16731210.67	0.2681	0.0215
Mercury	41097-08-13 11:46 G	16731655.90	16731655.99	16731656.08	0.2657	0.1489
Mercury	41101-02-10 20:53 G	16732932.20	16732932.37	16732932.53	0.2676	0.0337
Mercury	41104-08-07 14:10 G	16734206.02	16734206.09	16734206.16	0.2646	0.1988
Mercury	41117-08-10 06:29 G	16738956.67	16738956.77	16738956.88	0.2648	0.0753
Mercury	41130-08-12 23:17 G	16743707.37	16743707.47	16743707.58	0.2652	0.0445
Mercury	41143-08-15 16:34 G	16748458.11	16748458.19	16748458.27	0.2657	0.1678
Mercury	41147-02-12 03:36 G	16749734.48	16749734.65	16749734.82	0.2677	0.0201
Mercury	41150-08-08 18:43 G	16751008.20	16751008.28	16751008.36	0.2647	0.1669
Mercury	41163-08-11 11:17 G	16755758.86	16755758.97	16755759.07	0.2648	0.0589
Mercury	41176-08-13 04:05 G	16760509.57	16760509.67	16760509.77	0.2654	0.0718
Mercury	41180-02-10 01:12 G	16761785.48	16761785.55	16761785.62	0.2673	0.2404
Mercury	41183-08-07 06:58 G	16763059.77	16763059.79	16763059.81	0.2647	0.2593
Mercury	41189-08-15 21:22 G	16765260.32	16765260.39	16765260.46	0.2657	0.1981
Mercury	41193-02-12 10:34 G	16766536.78	16766536.94	16766537.10	0.2677	0.0878
Mercury	41196-08-08 23:17 G	16767810.38	16767810.47	16767810.56	0.2647	0.1549
Venus	41201-11-26 23:02 G	16769746.33	16769746.46	16769746.59	0.2663	0.1227
Mercury	41209-08-11 15:50 G	16772561.06	16772561.16	16772561.27	0.2649	0.0257
Venus	41209-11-24 18:14 G	16772666.21	16772666.26	16772666.31	0.2660	0.2487
Mercury	41222-08-14 08:53 G	16777311.77	16777311.87	16777311.97	0.2655	0.0896
Mercury	41226-02-10 07:55 G	16778587.70	16778587.83	16778587.96	0.2674	0.1660
Mercury	41229-08-07 11:31 G	16779861.94	16779861.98	16779862.02	0.2647	0.2442

Mercury	41235-08-17 02:10 G	16782062.54	16782062.59	16782062.64	0.2657	0.2247
Mercury	41239-02-13 17:46 G	16783339.09	16783339.24	16783339.38	0.2677	0.1342
Mercury	41242-08-10 03:50 G	16784612.57	16784612.66	16784612.76	0.2647	0.1206
Mercury	41255-08-12 20:38 G	16789363.25	16789363.36	16789363.46	0.2651	0.0128
Mercury	41268-08-14 13:26 G	16794113.97	16794114.06	16794114.16	0.2655	0.1239
Mercury	41272-02-11 14:38 G	16795389.97	16795390.11	16795390.26	0.2675	0.1316
Mercury	41275-08-08 16:05 G	16796664.11	16796664.17	16796664.23	0.2647	0.2177
Mercury	41281-08-17 06:58 G	16798864.76	16798864.79	16798864.83	0.2658	0.2477
Mercury	41285-02-14 00:43 G	16800141.43	16800141.53	16800141.63	0.2678	0.2106
Mercury	41288-08-10 08:38 G	16801414.76	16801414.86	16801414.96	0.2647	0.1056
Mercury	41301-08-14 01:12 G	16806165.44	16806165.55	16806165.66	0.2653	0.0241
Mercury	41314-08-16 18:14 G	16810916.17	16810916.26	16810916.35	0.2655	0.1400
Mercury	41318-02-12 21:36 G	16812192.24	16812192.40	16812192.56	0.2675	0.0518
Mercury	41321-08-09 20:38 G	16813466.29	16813466.36	16813466.43	0.2646	0.1947
Mercury	41331-02-16 07:41 G	16816943.77	16816943.82	16816943.88	0.2681	0.2493
Mercury	41334-08-12 13:12 G	16818216.95	16818217.05	16818217.15	0.2648	0.0755
Venus	41339-05-28 06:43 G	16819966.63	16819966.78	16819966.94	0.2669	0.0906
Mercury	41347-08-15 06:00 G	16822967.64	16822967.75	16822967.85	0.2653	0.0387
Mercury	41360-08-16 23:17 G	16827718.39	16827718.47	16827718.54	0.2657	0.1774
Mercury	41364-02-14 04:48 G	16828994.53	16828994.70	16828994.87	0.2676	0.0119
Mercury	41367-08-11 01:12 G	16830268.47	16830268.55	16830268.63	0.2646	0.1744
Mercury	41380-08-12 17:46 G	16835019.14	16835019.24	16835019.35	0.2650	0.0544
Mercury	41393-08-15 10:34 G	16839769.84	16839769.94	16839770.05	0.2653	0.0729
Mercury	41397-02-11 01:55 G	16841045.54	16841045.58	16841045.62	0.2673	0.2595
Mercury	41406-08-19 04:05 G	16844520.60	16844520.67	16844520.74	0.2658	0.1932
Mercury	41410-02-15 11:46 G	16845796.83	16845796.99	16845797.15	0.2677	0.0607
Mercury	41413-08-12 06:00 G	16847070.66	16847070.75	16847070.84	0.2647	0.1440
Mercury	41426-08-14 22:34 G	16851821.33	16851821.44	16851821.54	0.2651	0.0344
Mercury	41439-08-17 15:22 G	16856572.04	16856572.14	16856572.24	0.2654	0.0927
Mercury	41443-02-13 09:07 G	16857847.77	16857847.88	16857847.98	0.2673	0.2081

Venus	41444-11-29 02:10 G	16858502.44	16858502.59	16858502.75	0.2650	0.1134
Mercury	41446-08-10 18:00 G	16859122.21	16859122.25	16859122.30	0.2646	0.2360
Mercury	41452-08-19 08:53 G	16861322.81	16861322.87	16861322.92	0.2658	0.2280
Venus	41452-11-26 12:58 G	16861422.01	16861422.04	16861422.07	0.2650	0.2591
Mercury	41456-02-16 18:43 G	16862599.13	16862599.28	16862599.43	0.2679	0.1134
Mercury	41459-08-13 10:34 G	16863872.85	16863872.94	16863873.03	0.2648	0.1294
Mercury	41472-08-15 03:07 G	16868623.52	16868623.63	16868623.74	0.2651	0.0037
Mercury	41485-08-17 20:24 G	16873374.25	16873374.35	16873374.44	0.2656	0.1204
Mercury	41489-02-13 15:50 G	16874650.02	16874650.16	16874650.30	0.2674	0.1383
Mercury	41492-08-10 22:48 G	16875924.39	16875924.45	16875924.50	0.2646	0.2230
Mercury	41498-08-20 13:41 G	16878125.03	16878125.07	16878125.10	0.2658	0.2466
Mercury	41502-02-18 01:41 G	16879401.44	16879401.57	16879401.70	0.2680	0.1694
Mercury	41505-08-14 15:07 G	16880675.03	16880675.13	16880675.23	0.2648	0.0966
Mercury	41518-08-17 07:55 G	16885425.72	16885425.83	16885425.94	0.2651	0.0149
Mercury	41531-08-20 00:58 G	16890176.46	16890176.54	16890176.63	0.2657	0.1491
Mercury	41535-02-15 22:48 G	16891452.29	16891452.45	16891452.60	0.2676	0.0994
Mercury	41538-08-13 03:22 G	16892726.57	16892726.64	16892726.71	0.2647	0.1897
Mercury	41548-02-19 08:38 G	16896203.79	16896203.86	16896203.94	0.2680	0.2354
Mercury	41551-08-15 19:41 G	16897477.22	16897477.32	16897477.42	0.2649	0.0845
Mercury	41564-08-17 12:43 G	16902227.92	16902228.03	16902228.13	0.2653	0.0503
Mercury	41577-08-20 05:46 G	16906978.66	16906978.74	16906978.82	0.2657	0.1673
Mercury	41581-02-16 05:31 G	16908254.57	16908254.73	16908254.90	0.2677	0.0212
Venus	41582-05-30 00:29 G	16908722.36	16908722.52	16908722.67	0.2681	0.0369
Mercury	41584-08-13 07:55 G	16909528.75	16909528.83	16909528.91	0.2647	0.1743
Mercury	41597-08-16 00:29 G	16914279.41	16914279.52	16914279.62	0.2649	0.0488
Mercury	41610-08-18 17:17 G	16919030.12	16919030.22	16919030.33	0.2655	0.0642
Mercury	41617-08-11 20:10 G	16921580.33	16921580.34	16921580.35	0.2647	0.2628
Mercury	41623-08-21 10:34 G	16923780.87	16923780.94	16923781.01	0.2657	0.2012
Mercury	41627-02-17 12:43 G	16925056.86	16925057.03	16925057.19	0.2677	0.0151
Mercury	41630-08-14 12:29 G	16926330.93	16926331.02	16926331.11	0.2647	0.1484

Mercury	41643-08-17 05:17 G	16931081.61	16931081.72	16931081.82	0.2650	0.0356
Mercury	41656-08-18 22:05 G	16935832.32	16935832.42	16935832.52	0.2655	0.0999
Mercury	41660-02-15 09:36 G	16937107.83	16937107.90	16937107.98	0.2675	0.2385
Mercury	41663-08-13 00:43 G	16938382.49	16938382.53	16938382.57	0.2647	0.2426
Mercury	41669-08-21 15:22 G	16940583.08	16940583.14	16940583.20	0.2657	0.2185
Mercury	41673-02-17 19:41 G	16941859.16	16941859.32	16941859.47	0.2678	0.0961
Mercury	41676-08-14 17:02 G	16943133.12	16943133.21	16943133.31	0.2647	0.1247
Venus	41687-11-30 21:36 G	16947258.25	16947258.40	16947258.55	0.2660	0.0283
Mercury	41689-08-17 09:50 G	16947883.80	16947883.91	16947884.02	0.2652	0.0033
Mercury	41702-08-21 02:53 G	16952634.52	16952634.62	16952634.71	0.2655	0.1141
Mercury	41706-02-16 16:34 G	16953910.07	16953910.19	16953910.32	0.2675	0.1768
Mercury	41709-08-14 05:17 G	16955184.66	16955184.72	16955184.78	0.2647	0.2139
Mercury	41715-08-23 20:10 G	16957385.32	16957385.34	16957385.37	0.2658	0.2562
Mercury	41719-02-20 02:53 G	16958661.48	16958661.62	16958661.76	0.2679	0.1366
Mercury	41722-08-16 21:50 G	16959935.31	16959935.41	16959935.51	0.2647	0.1027
Mercury	41735-08-19 14:24 G	16964686.00	16964686.10	16964686.21	0.2653	0.0226
Mercury	41748-08-21 07:41 G	16969436.73	16969436.82	16969436.90	0.2656	0.1490
Mercury	41752-02-17 23:46 G	16970712.34	16970712.49	16970712.64	0.2675	0.1165
Mercury	41755-08-15 09:50 G	16971986.84	16971986.91	16971986.98	0.2647	0.2004
Mercury	41765-02-20 10:05 G	16975463.82	16975463.92	16975464.02	0.2681	0.2111
Mercury	41768-08-17 02:24 G	16976737.50	16976737.60	16976737.71	0.2649	0.0737
Mercury	41781-08-19 19:12 G	16981488.19	16981488.30	16981488.41	0.2653	0.0422
Mercury	41794-08-22 12:29 G	16986238.94	16986239.02	16986239.10	0.2657	0.1703
Mercury	41798-02-18 06:43 G	16987514.62	16987514.78	16987514.95	0.2676	0.0631
Mercury	41801-08-16 14:24 G	16988789.02	16988789.10	16988789.19	0.2646	0.1659
Mercury	41811-02-22 17:02 G	16992266.19	16992266.21	16992266.23	0.2683	0.2641
Mercury	41814-08-19 07:12 G	16993539.69	16993539.80	16993539.90	0.2650	0.0596
Venus	41825-06-01 11:02 G	16997478.81	16997478.96	16997479.12	0.2675	0.0523
Mercury	41827-08-22 00:00 G	16998290.39	16998290.50	16998290.60	0.2653	0.0714
Mercury	41834-08-15 02:38 G	17000840.60	17000840.61	17000840.62	0.2648	0.2612

Mercury	41840-08-23 17:17 G	17003041.15	17003041.22	17003041.29	0.2658	0.1975
Mercury	41844-02-20 13:41 G	17004316.91	17004317.07	17004317.24	0.2678	0.0072
Mercury	41847-08-17 19:12 G	17005591.21	17005591.30	17005591.39	0.2647	0.1527
Mercury	41860-08-19 11:46 G	17010341.88	17010341.99	17010342.10	0.2651	0.0247
Mercury	41873-08-22 04:48 G	17015092.60	17015092.70	17015092.80	0.2654	0.0906
Mercury	41877-02-17 10:48 G	17016367.89	17016367.95	17016368.01	0.2673	0.2488
Mercury	41880-08-15 07:12 G	17017642.76	17017642.80	17017642.84	0.2647	0.2436
Mercury	41886-08-24 22:05 G	17019843.36	17019843.42	17019843.47	0.2658	0.2257
Mercury	41890-02-20 20:53 G	17021119.20	17021119.37	17021119.53	0.2680	0.0474
Mercury	41893-08-17 23:46 G	17022393.40	17022393.49	17022393.59	0.2648	0.1206
Mercury	41906-08-21 16:19 G	17027144.08	17027144.18	17027144.29	0.2651	0.0145
Mercury	41919-08-24 09:36 G	17031894.80	17031894.90	17031894.99	0.2656	0.1260
Mercury	41923-02-19 17:46 G	17033170.14	17033170.24	17033170.34	0.2675	0.2136
Mercury	41926-08-17 12:00 G	17034444.94	17034445.00	17034445.06	0.2647	0.2160
Venus	41930-12-04 07:26 G	17036014.69	17036014.81	17036014.94	0.2652	0.1681
Mercury	41932-08-26 02:53 G	17036645.58	17036645.62	17036645.65	0.2658	0.2457
Mercury	41936-02-23 03:36 G	17037921.51	17037921.65	17037921.80	0.2680	0.1286
Venus	41938-12-01 19:26 G	17038934.28	17038934.31	17038934.34	0.2647	0.2588
Mercury	41939-08-20 04:19 G	17039195.58	17039195.68	17039195.78	0.2649	0.1045
Mercury	41952-08-21 21:07 G	17043946.27	17043946.38	17043946.49	0.2651	0.0244
Mercury	41965-08-24 14:10 G	17048697.00	17048697.09	17048697.18	0.2657	0.1400
Mercury	41969-02-20 00:43 G	17049972.39	17049972.53	17049972.67	0.2677	0.1400
Mercury	41972-08-17 16:34 G	17051247.12	17051247.19	17051247.26	0.2647	0.1930
Mercury	41982-02-23 10:48 G	17054723.82	17054723.95	17054724.08	0.2680	0.1631
Mercury	41985-08-20 09:07 G	17055997.77	17055997.88	17055997.98	0.2649	0.0778
Mercury	41998-08-23 01:55 G	17060748.47	17060748.58	17060748.68	0.2653	0.0404

43RD MILLENNIUM CE

This is a list of transits visible from Moon in the 43rd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	42011-08-25 18:58	G	17065499.21	17065499.29	17065499.37	0.2657	0.1765	
Mercury	42015-02-21 07:26	G	17066774.66	17066774.81	17066774.97	0.2678	0.0946	
Mercury	42018-08-18 21:07	G	17068049.30	17068049.38	17068049.46	0.2648	0.1741	
Mercury	42028-02-24 18:00	G	17071526.19	17071526.25	17071526.31	0.2681	0.2473	
Mercury	42031-08-21 13:41	G	17072799.96	17072800.07	17072800.18	0.2649	0.0540	
Mercury	42044-08-23 06:29	G	17077550.67	17077550.77	17077550.88	0.2655	0.0721	
Mercury	42057-08-25 23:46	G	17082301.42	17082301.49	17082301.57	0.2657	0.1918	
Mercury	42061-02-21 14:38	G	17083576.94	17083577.11	17083577.27	0.2678	0.0286	
Mercury	42064-08-19 01:41	G	17084851.48	17084851.57	17084851.66	0.2648	0.1443	
Venus	42068-06-02 01:26	G	17086234.40	17086234.56	17086234.72	0.2678	0.0231	
Mercury	42077-08-21 18:29	G	17089602.16	17089602.27	17089602.37	0.2650	0.0329	
Mercury	42090-08-24 11:17	G	17094352.87	17094352.97	17094353.07	0.2656	0.0937	
Mercury	42097-08-17 13:55	G	17096903.04	17096903.08	17096903.13	0.2648	0.2350	
Mercury	42103-08-28 04:48	G	17099103.64	17099103.70	17099103.75	0.2658	0.2268	
Mercury	42107-02-23 21:50	G	17100379.24	17100379.41	17100379.57	0.2678	0.0299	
Mercury	42110-08-21 06:14	G	17101653.67	17101653.76	17101653.86	0.2647	0.1313	
Mercury	42123-08-23 23:02	G	17106404.35	17106404.46	17106404.57	0.2652	0.0017	
Mercury	42136-08-25 16:05	G	17111155.07	17111155.17	17111155.26	0.2656	0.1183	
Mercury	42140-02-21 18:29	G	17112430.18	17112430.27	17112430.36	0.2676	0.2238	
Mercury	42143-08-19 18:29	G	17113705.22	17113705.27	17113705.33	0.2647	0.2228	
Mercury	42149-08-28 09:36	G	17115905.86	17115905.90	17115905.93	0.2658	0.2493	
Mercury	42153-02-24 05:02	G	17117181.55	17117181.71	17117181.86	0.2680	0.0858	

Mercury	42156-08-21 11:02 G	17118455.86	17118455.96	17118456.06	0.2648	0.0953
Mercury	42169-08-24 03:50 G	17123206.55	17123206.66	17123206.76	0.2653	0.0163
Venus	42173-12-04 22:19 G	17124770.27	17124770.43	17124770.58	0.2656	0.0157
Mercury	42182-08-26 20:53 G	17127957.28	17127957.37	17127957.46	0.2656	0.1470
Mercury	42186-02-22 01:41 G	17129232.45	17129232.57	17129232.68	0.2676	0.1882
Mercury	42189-08-19 23:02 G	17130507.39	17130507.46	17130507.53	0.2647	0.1920
Mercury	42199-02-25 12:00 G	17133983.87	17133984.00	17133984.13	0.2682	0.1583
Mercury	42202-08-23 15:36 G	17135258.05	17135258.15	17135258.25	0.2649	0.0831
Mercury	42215-08-26 08:24 G	17140008.75	17140008.85	17140008.96	0.2654	0.0491
Mercury	42228-08-28 01:41 G	17144759.49	17144759.57	17144759.65	0.2657	0.1675
Mercury	42232-02-24 08:38 G	17146034.71	17146034.86	17146035.02	0.2676	0.1048
Mercury	42235-08-22 03:50 G	17147309.58	17147309.66	17147309.74	0.2647	0.1747
Mercury	42245-02-26 19:12 G	17150786.19	17150786.30	17150786.41	0.2683	0.1988
Mercury	42248-08-23 20:10 G	17152060.24	17152060.34	17152060.45	0.2651	0.0515
Mercury	42261-08-26 13:12 G	17156810.95	17156811.05	17156811.15	0.2654	0.0622
Mercury	42268-08-19 15:50 G	17159361.15	17159361.16	17159361.17	0.2648	0.2625
Mercury	42274-08-29 06:29 G	17161561.70	17161561.77	17161561.84	0.2658	0.2031
Mercury	42278-02-24 15:50 G	17162837.00	17162837.16	17162837.32	0.2678	0.0683
Mercury	42281-08-22 08:24 G	17164111.76	17164111.85	17164111.94	0.2647	0.1466
Mercury	42294-08-25 00:58 G	17168862.43	17168862.54	17168862.65	0.2652	0.0338
Mercury	42307-08-28 18:00 G	17173613.15	17173613.25	17173613.35	0.2655	0.0989
Venus	42311-06-06 12:43 G	17174990.87	17174991.03	17174991.18	0.2681	0.0149
Mercury	42314-08-21 20:24 G	17176163.32	17176163.35	17176163.39	0.2647	0.2456
Mercury	42320-08-30 11:17 G	17178363.91	17178363.97	17178364.03	0.2658	0.2169
Mercury	42324-02-26 22:48 G	17179639.28	17179639.45	17179639.61	0.2680	0.0083
Mercury	42327-08-24 12:58 G	17180913.95	17180914.04	17180914.14	0.2648	0.1237
Mercury	42340-08-26 05:46 G	17185664.63	17185664.74	17185664.84	0.2652	0.0121
Mercury	42353-08-28 22:48 G	17190415.35	17190415.45	17190415.55	0.2657	0.1161
Mercury	42357-02-23 19:41 G	17191690.29	17191690.32	17191690.35	0.2675	0.2621
Mercury	42360-08-22 01:12 G	17192965.49	17192965.55	17192965.61	0.2647	0.2129

Mercury	42366-08-31 16:05 G	17195166.14	17195166.17	17195166.20	0.2658	0.2536
Mercury	42370-02-27 05:46 G	17196441.58	17196441.74	17196441.91	0.2681	0.0543
Mercury	42373-08-24 17:31 G	17197716.13	17197716.23	17197716.33	0.2649	0.1060
Mercury	42386-08-27 10:19 G	17202466.83	17202466.93	17202467.04	0.2652	0.0193
Mercury	42399-08-30 03:36 G	17207217.56	17207217.65	17207217.74	0.2658	0.1479
Mercury	42403-02-25 02:38 G	17208492.50	17208492.61	17208492.72	0.2677	0.1976
Mercury	42406-08-23 05:46 G	17209767.67	17209767.74	17209767.81	0.2647	0.1996
Mercury	42416-02-28 12:58 G	17213243.90	17213244.04	17213244.19	0.2681	0.1234
Venus	42416-12-07 10:48 G	17213526.82	17213526.95	17213527.08	0.2654	0.1493
Mercury	42419-08-25 22:19 G	17214518.32	17214518.43	17214518.53	0.2650	0.0748
Mercury	42432-08-27 15:07 G	17219269.03	17219269.13	17219269.24	0.2654	0.0420
Mercury	42445-08-30 08:10 G	17224019.76	17224019.84	17224019.93	0.2658	0.1695
Mercury	42449-02-25 09:36 G	17225294.77	17225294.90	17225295.03	0.2678	0.1562
Mercury	42452-08-23 10:19 G	17226569.85	17226569.93	17226570.01	0.2648	0.1670
Mercury	42462-02-28 20:10 G	17230046.22	17230046.34	17230046.46	0.2682	0.1809
Mercury	42465-08-26 02:53 G	17231320.52	17231320.62	17231320.73	0.2650	0.0602
Mercury	42478-08-28 19:55 G	17236071.23	17236071.33	17236071.43	0.2655	0.0729
Mercury	42485-08-21 22:34 G	17238621.42	17238621.44	17238621.46	0.2648	0.2602
Mercury	42491-08-31 12:58 G	17240821.97	17240822.04	17240822.11	0.2657	0.1955
Mercury	42495-02-26 16:34 G	17242097.03	17242097.19	17242097.35	0.2678	0.0777
Mercury	42498-08-24 14:53 G	17243372.03	17243372.12	17243372.21	0.2648	0.1545
Mercury	42508-03-02 03:36 G	17246848.58	17246848.65	17246848.72	0.2683	0.2388
Mercury	42511-08-28 07:41 G	17248122.71	17248122.82	17248122.92	0.2651	0.0249
Mercury	42524-08-30 00:29 G	17252873.42	17252873.52	17252873.62	0.2656	0.0887
Mercury	42531-08-24 03:07 G	17255423.59	17255423.63	17255423.67	0.2648	0.2432
Mercury	42537-09-01 18:00 G	17257624.19	17257624.25	17257624.30	0.2658	0.2250
Mercury	42541-02-27 23:46 G	17258899.33	17258899.49	17258899.65	0.2679	0.0402
Mercury	42544-08-25 19:41 G	17260174.22	17260174.32	17260174.41	0.2648	0.1224
Venus	42554-06-07 05:02 G	17263746.54	17263746.71	17263746.87	0.2674	0.0387
Mercury	42557-08-28 12:14 G	17264924.91	17264925.01	17264925.12	0.2652	0.0135

Mercury	42570-08-31 05:17 G	17269675.63	17269675.72	17269675.81	0.2656	0.1237
Mercury	42577-08-24 07:41 G	17272225.76	17272225.82	17272225.88	0.2648	0.2193
Mercury	42583-09-02 22:48 G	17274426.41	17274426.45	17274426.49	0.2658	0.2447
Mercury	42587-03-01 06:58 G	17275701.63	17275701.79	17275701.95	0.2680	0.0434
Mercury	42590-08-27 00:14 G	17276976.41	17276976.51	17276976.61	0.2648	0.1050
Mercury	42603-08-30 17:02 G	17281727.10	17281727.21	17281727.31	0.2654	0.0234
Mercury	42616-09-01 10:05 G	17286477.83	17286477.92	17286478.01	0.2656	0.1383
Mercury	42620-02-28 03:36 G	17287752.56	17287752.65	17287752.73	0.2676	0.2281
Mercury	42623-08-26 12:14 G	17289027.94	17289028.01	17289028.08	0.2647	0.1935
Mercury	42633-03-02 14:10 G	17292503.94	17292504.09	17292504.25	0.2682	0.0832
Mercury	42636-08-28 04:48 G	17293778.60	17293778.70	17293778.81	0.2650	0.0780
Mercury	42649-08-30 21:36 G	17298529.30	17298529.40	17298529.51	0.2654	0.0394
Venus	42659-12-10 00:58 G	17302282.38	17302282.54	17302282.70	0.2651	0.0143
Mercury	42662-09-02 14:53 G	17303280.04	17303280.12	17303280.20	0.2658	0.1752
Mercury	42666-02-28 10:48 G	17304554.82	17304554.95	17304555.07	0.2677	0.1774
Mercury	42669-08-26 17:02 G	17305830.13	17305830.21	17305830.29	0.2647	0.1759
Mercury	42679-03-03 21:22 G	17309306.26	17309306.39	17309306.52	0.2683	0.1617
Mercury	42682-08-29 09:36 G	17310580.79	17310580.90	17310581.00	0.2651	0.0534
Mercury	42695-09-01 02:24 G	17315331.50	17315331.60	17315331.70	0.2654	0.0700
Mercury	42708-09-03 19:41 G	17320082.25	17320082.32	17320082.40	0.2658	0.1931
Mercury	42712-03-01 17:46 G	17321357.09	17321357.24	17321357.39	0.2679	0.1168
Mercury	42715-08-28 21:36 G	17322632.31	17322632.40	17322632.49	0.2648	0.1440
Mercury	42725-03-05 04:34 G	17326108.59	17326108.69	17326108.79	0.2684	0.2061
Mercury	42728-08-30 14:10 G	17327382.98	17327383.09	17327383.20	0.2652	0.0350
Mercury	42741-09-02 07:12 G	17332133.70	17332133.80	17332133.90	0.2655	0.0924
Mercury	42748-08-26 09:36 G	17334683.86	17334683.90	17334683.95	0.2647	0.2370
Mercury	42754-09-05 00:29 G	17336884.47	17336884.52	17336884.58	0.2659	0.2249
Mercury	42758-03-03 00:58 G	17338159.37	17338159.54	17338159.70	0.2681	0.0502
Mercury	42761-08-29 02:10 G	17339434.50	17339434.59	17339434.69	0.2649	0.1314
Mercury	42774-08-31 18:58 G	17344185.18	17344185.29	17344185.39	0.2652	0.0117

Mercury	42787-09-03 12:00 G	17348935.91	17348936.00	17348936.10	0.2657	0.1168
Mercury	42794-08-27 14:24 G	17351486.04	17351486.10	17351486.16	0.2647	0.2233
Venus	42797-06-09 11:31 G	17352502.83	17352502.98	17352503.14	0.2686	0.0083
Mercury	42800-09-05 05:17 G	17353686.68	17353686.72	17353686.76	0.2658	0.2456
Mercury	42804-03-03 07:55 G	17354961.67	17354961.83	17354962.00	0.2681	0.0069
Mercury	42807-08-30 06:43 G	17356236.68	17356236.78	17356236.88	0.2650	0.0980
Mercury	42820-08-31 23:31 G	17360987.38	17360987.48	17360987.59	0.2652	0.0141
Mercury	42833-09-03 16:48 G	17365738.11	17365738.20	17365738.29	0.2658	0.1479
Mercury	42840-08-27 18:58 G	17368288.22	17368288.29	17368288.36	0.2648	0.1919
Mercury	42850-03-04 15:07 G	17371763.97	17371764.13	17371764.29	0.2681	0.0720
Mercury	42853-08-30 11:31 G	17373038.87	17373038.98	17373039.08	0.2650	0.0856
Mercury	42866-09-02 04:19 G	17377789.58	17377789.68	17377789.79	0.2654	0.0481
Mercury	42879-09-04 21:36 G	17382540.31	17382540.40	17382540.48	0.2658	0.1643
Mercury	42883-03-02 11:31 G	17383814.87	17383814.98	17383815.09	0.2679	0.1951
Mercury	42886-08-28 23:31 G	17385090.40	17385090.48	17385090.56	0.2648	0.1744
Mercury	42896-03-04 22:19 G	17388566.29	17388566.43	17388566.58	0.2682	0.1134
Mercury	42899-08-31 16:05 G	17389841.07	17389841.17	17389841.28	0.2650	0.0512
Venus	42902-12-12 12:00 G	17391038.85	17391039.00	17391039.14	0.2656	0.0855
Venus	42910-12-10 05:02 G	17393958.65	17393958.71	17393958.77	0.2650	0.2448
Mercury	42912-09-03 09:07 G	17394591.78	17394591.88	17394591.98	0.2656	0.0619
Mercury	42919-08-28 11:46 G	17397141.98	17397141.99	17397142.00	0.2648	0.2622
Mercury	42925-09-06 02:24 G	17399342.53	17399342.60	17399342.67	0.2658	0.1998
Mercury	42929-03-03 18:43 G	17400617.14	17400617.28	17400617.41	0.2679	0.1552
Mercury	42932-08-30 04:05 G	17401892.58	17401892.67	17401892.76	0.2649	0.1516
Mercury	42942-03-07 05:46 G	17405368.63	17405368.74	17405368.85	0.2684	0.1977
Mercury	42945-09-01 20:53 G	17406643.26	17406643.37	17406643.47	0.2651	0.0348
Mercury	42958-09-04 13:55 G	17411393.98	17411394.08	17411394.18	0.2657	0.0976
Mercury	42965-08-28 16:19 G	17413944.15	17413944.18	17413944.22	0.2648	0.2455
Mercury	42971-09-07 07:12 G	17416144.74	17416144.80	17416144.86	0.2658	0.2159
Mercury	42975-03-05 01:55 G	17417419.42	17417419.58	17417419.74	0.2679	0.0786

Mercury	42978-08-31 08:38 G	17418694.77	17418694.86	17418694.96	0.2648	0.1253
Mercury	42988-03-07 13:12 G	17422170.98	17422171.05	17422171.12	0.2685	0.2388
Mercury	42991-09-03 01:26 G	17423445.46	17423445.56	17423445.67	0.2653	0.0117

44TH MILLENNIUM CE

This is a list of transits visible from Moon in the 44th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	43004-09-05 18:29 G		17428196.18	17428196.27	17428196.37	0.2657	0.1134	
Mercury	43011-08-30 20:53 G		17430746.31	17430746.37	17430746.43	0.2648	0.2152	
Mercury	43017-09-08 12:00 G		17432946.97	17432947.00	17432947.03	0.2659	0.2526	
Mercury	43021-03-06 09:07 G		17434221.72	17434221.88	17434222.05	0.2681	0.0276	
Mercury	43024-09-01 13:26 G		17435496.96	17435497.06	17435497.16	0.2649	0.1065	
Mercury	43037-09-04 06:14 G		17440247.65	17440247.76	17440247.87	0.2655	0.0189	
Venus	43040-06-11 09:50 G		17441258.74	17441258.91	17441259.07	0.2673	0.0699	
Mercury	43050-09-06 23:17 G		17444998.39	17444998.47	17444998.56	0.2657	0.1457	
Mercury	43057-08-31 01:26 G		17447548.49	17447548.56	17447548.63	0.2648	0.2032	
Mercury	43067-03-07 16:19 G		17451024.02	17451024.18	17451024.35	0.2683	0.0356	
Mercury	43070-09-02 18:00 G		17452299.15	17452299.25	17452299.36	0.2650	0.0757	
Mercury	43083-09-05 11:02 G		17457049.85	17457049.96	17457050.06	0.2655	0.0391	
Mercury	43096-09-07 04:19 G		17461800.60	17461800.68	17461800.76	0.2658	0.1696	
Mercury	43100-03-05 12:43 G		17463074.97	17463075.03	17463075.10	0.2677	0.2409	
Mercury	43103-09-02 06:14 G		17464350.67	17464350.76	17464350.84	0.2648	0.1684	
Mercury	43113-03-08 23:31 G		17467826.33	17467826.48	17467826.63	0.2684	0.1021	

Mercury	43116-09-03 22:48 G	17469101.34	17469101.45	17469101.55	0.2652	0.0622
Mercury	43129-09-06 15:36 G	17473852.05	17473852.15	17473852.26	0.2655	0.0702
Mercury	43136-08-30 18:14 G	17476402.26	17476402.26	17476402.26	0.2648	0.2647
Mercury	43142-09-09 09:07 G	17478602.81	17478602.88	17478602.95	0.2659	0.1931
Venus	43145-12-14 06:43 G	17479794.62	17479794.78	17479794.94	0.2646	0.0685
Mercury	43146-03-06 19:55 G	17479877.20	17479877.33	17479877.46	0.2679	0.1612
Mercury	43149-09-02 10:48 G	17481152.86	17481152.95	17481153.04	0.2648	0.1549
Mercury	43159-03-10 06:43 G	17484628.65	17484628.78	17484628.92	0.2684	0.1496
Mercury	43162-09-05 03:22 G	17485903.54	17485903.64	17485903.75	0.2653	0.0273
Mercury	43175-09-07 20:24 G	17490654.25	17490654.35	17490654.45	0.2656	0.0868
Mercury	43182-08-31 22:48 G	17493204.41	17493204.45	17493204.49	0.2648	0.2444
Mercury	43188-09-09 13:41 G	17495405.02	17495405.07	17495405.13	0.2659	0.2239
Mercury	43192-03-07 03:07 G	17496679.48	17496679.63	17496679.77	0.2681	0.1247
Mercury	43195-09-03 15:22 G	17497955.05	17497955.14	17497955.24	0.2649	0.1245
Mercury	43205-03-10 13:55 G	17501431.00	17501431.08	17501431.17	0.2684	0.2259
Mercury	43208-09-05 08:10 G	17502705.73	17502705.84	17502705.95	0.2653	0.0143
Mercury	43221-09-08 01:12 G	17507456.46	17507456.55	17507456.65	0.2657	0.1233
Mercury	43228-09-01 03:36 G	17510006.59	17510006.65	17510006.71	0.2648	0.2204
Mercury	43234-09-10 18:29 G	17512207.23	17512207.27	17512207.32	0.2659	0.2411
Mercury	43238-03-08 10:05 G	17513481.76	17513481.92	17513482.08	0.2682	0.0443
Mercury	43241-09-03 19:55 G	17514757.24	17514757.33	17514757.43	0.2650	0.1061
Mercury	43254-09-06 12:58 G	17519507.93	17519508.04	17519508.14	0.2653	0.0238
Mercury	43267-09-09 06:00 G	17524258.66	17524258.75	17524258.84	0.2658	0.1372
Mercury	43274-09-02 08:10 G	17526808.77	17526808.84	17526808.91	0.2648	0.1944
Venus	43275-06-15 15:36 G	17527095.12	17527095.15	17527095.18	0.2685	0.2619
Venus	43283-06-13 10:05 G	17530014.77	17530014.92	17530015.07	0.2688	0.0230
Mercury	43284-03-08 17:17 G	17530284.06	17530284.22	17530284.38	0.2682	0.0044
Mercury	43287-09-05 00:43 G	17531559.43	17531559.53	17531559.63	0.2651	0.0818
Mercury	43300-09-07 17:31 G	17536310.13	17536310.23	17536310.34	0.2655	0.0393
Mercury	43313-09-10 10:48 G	17541060.87	17541060.95	17541061.03	0.2658	0.1729

Mercury	43317-03-07 13:41 G	17542335.03	17542335.07	17542335.11	0.2679	0.2584
Mercury	43320-09-03 12:43 G	17543610.95	17543611.03	17543611.11	0.2649	0.1786
Mercury	43330-03-11 00:43 G	17547086.37	17547086.53	17547086.68	0.2682	0.0751
Mercury	43333-09-06 05:17 G	17548361.62	17548361.72	17548361.83	0.2651	0.0562
Mercury	43346-09-08 22:19 G	17553112.33	17553112.43	17553112.53	0.2656	0.0669
Mercury	43359-09-11 15:36 G	17557863.08	17557863.15	17557863.22	0.2658	0.1892
Mercury	43363-03-08 20:53 G	17559137.27	17559137.37	17559137.47	0.2679	0.2073
Mercury	43366-09-04 17:17 G	17560413.13	17560413.22	17560413.31	0.2649	0.1470
Mercury	43376-03-11 08:10 G	17563888.70	17563888.84	17563888.98	0.2684	0.1291
Mercury	43379-09-07 10:05 G	17565163.81	17565163.92	17565164.03	0.2652	0.0358
Venus	43388-12-15 11:17 G	17568550.83	17568550.97	17568551.12	0.2657	0.0459
Mercury	43392-09-09 03:07 G	17569914.53	17569914.63	17569914.73	0.2657	0.0923
Venus	43396-12-13 06:58 G	17571470.70	17571470.79	17571470.87	0.2654	0.2170
Mercury	43399-09-03 05:31 G	17572464.69	17572464.73	17572464.78	0.2649	0.2388
Mercury	43405-09-12 20:24 G	17574665.30	17574665.35	17574665.41	0.2658	0.2217
Mercury	43409-03-10 03:50 G	17575939.52	17575939.66	17575939.81	0.2680	0.1368
Mercury	43412-09-05 22:05 G	17577215.33	17577215.42	17577215.51	0.2649	0.1346
Mercury	43422-03-13 15:22 G	17580691.03	17580691.14	17580691.25	0.2685	0.1911
Mercury	43425-09-08 14:53 G	17581966.01	17581966.12	17581966.22	0.2654	0.0124
Mercury	43438-09-11 07:55 G	17586716.73	17586716.83	17586716.92	0.2657	0.1135
Mercury	43445-09-04 10:05 G	17589266.87	17589266.92	17589266.98	0.2649	0.2252
Mercury	43451-09-14 01:26 G	17591467.52	17591467.56	17591467.59	0.2659	0.2468
Mercury	43455-03-11 11:17 G	17592741.82	17592741.97	17592742.13	0.2681	0.0904
Mercury	43458-09-07 02:38 G	17594017.51	17594017.61	17594017.71	0.2649	0.0990
Mercury	43468-03-13 22:34 G	17597493.39	17597493.44	17597493.48	0.2685	0.2562
Mercury	43471-09-09 19:26 G	17598768.20	17598768.31	17598768.42	0.2655	0.0098
Mercury	43484-09-11 12:43 G	17603518.94	17603519.03	17603519.11	0.2657	0.1450
Mercury	43491-09-05 14:38 G	17606069.04	17606069.11	17606069.18	0.2648	0.1968
Mercury	43501-03-12 18:43 G	17609544.11	17609544.28	17609544.44	0.2683	0.0106
Mercury	43504-09-08 07:26 G	17610819.70	17610819.81	17610819.91	0.2651	0.0861

Mercury	43517-09-11 00:14 G	17615570.40	17615570.51	17615570.61	0.2655	0.0463
Venus	43526-06-16 14:24 G	17618770.94	17618771.10	17618771.26	0.2675	0.0613
Mercury	43530-09-13 17:31 G	17620321.15	17620321.23	17620321.31	0.2658	0.1625
Mercury	43537-09-06 19:26 G	17622871.23	17622871.31	17622871.39	0.2648	0.1762
Mercury	43547-03-14 01:55 G	17626346.42	17626346.58	17626346.74	0.2684	0.0284
Mercury	43550-09-09 12:00 G	17627621.89	17627622.00	17627622.10	0.2652	0.0549
Mercury	43563-09-12 05:02 G	17632372.60	17632372.71	17632372.81	0.2655	0.0596
Mercury	43576-09-13 22:19 G	17637123.36	17637123.43	17637123.50	0.2659	0.1993
Mercury	43580-03-10 22:05 G	17638397.34	17638397.42	17638397.50	0.2680	0.2346
Mercury	43583-09-08 00:00 G	17639673.41	17639673.50	17639673.59	0.2649	0.1520
Mercury	43593-03-14 08:53 G	17643148.72	17643148.87	17643149.02	0.2684	0.1104
Mercury	43596-09-09 16:34 G	17644424.09	17644424.19	17644424.30	0.2653	0.0365
Mercury	43609-09-12 09:50 G	17649174.81	17649174.91	17649175.01	0.2656	0.0950
Mercury	43616-09-05 12:14 G	17651724.97	17651725.01	17651725.04	0.2648	0.2503
Mercury	43622-09-15 03:07 G	17653925.57	17653925.63	17653925.69	0.2659	0.2128
Mercury	43626-03-12 05:17 G	17655199.60	17655199.72	17655199.85	0.2681	0.1673
Mercury	43629-09-08 04:34 G	17656475.60	17656475.69	17656475.79	0.2650	0.1264
Venus	43631-12-18 14:24 G	17657306.94	17657307.10	17657307.26	0.2644	0.0835
Mercury	43639-03-15 16:19 G	17659951.05	17659951.18	17659951.32	0.2684	0.1527
Mercury	43642-09-10 21:22 G	17661226.28	17661226.39	17661226.50	0.2653	0.0099
Mercury	43655-09-13 14:38 G	17665977.01	17665977.11	17665977.20	0.2658	0.1139
Mercury	43662-09-06 16:48 G	17668527.14	17668527.20	17668527.26	0.2648	0.2158
Mercury	43668-09-15 07:55 G	17670727.79	17670727.83	17670727.86	0.2659	0.2486
Mercury	43672-03-12 12:29 G	17672001.87	17672002.02	17672002.16	0.2682	0.1098
Mercury	43675-09-09 09:22 G	17673277.79	17673277.89	17673277.98	0.2651	0.1115
Mercury	43685-03-16 00:00 G	17676753.42	17676753.50	17676753.58	0.2685	0.2323
Mercury	43688-09-11 02:10 G	17678028.48	17678028.59	17678028.69	0.2654	0.0164
Mercury	43701-09-14 19:26 G	17682779.22	17682779.31	17682779.40	0.2659	0.1421
Mercury	43708-09-07 21:22 G	17685329.32	17685329.39	17685329.46	0.2648	0.2039
Mercury	43718-03-14 19:41 G	17688804.16	17688804.32	17688804.48	0.2682	0.0545

Mercury	43721-09-10 13:55 G	17690079.98	17690080.08	17690080.18	0.2651	0.0775
Mercury	43734-09-13 06:58 G	17694830.68	17694830.79	17694830.89	0.2655	0.0371
Mercury	43747-09-16 00:00 G	17699581.42	17699581.50	17699581.58	0.2659	0.1664
Mercury	43754-09-09 01:55 G	17702131.50	17702131.58	17702131.66	0.2649	0.1720
Mercury	43764-03-15 02:53 G	17705606.46	17705606.62	17705606.78	0.2683	0.0169
Mercury	43767-09-11 18:43 G	17706882.17	17706882.28	17706882.38	0.2651	0.0657
Venus	43769-06-17 08:38 G	17707526.72	17707526.86	17707527.01	0.2688	0.0982
Mercury	43780-09-13 11:31 G	17711632.88	17711632.98	17711633.09	0.2657	0.0701
Mercury	43793-09-16 04:48 G	17716383.63	17716383.70	17716383.78	0.2659	0.1892
Mercury	43797-03-12 23:02 G	17717657.40	17717657.46	17717657.52	0.2679	0.2473
Mercury	43800-09-10 06:29 G	17718933.69	17718933.77	17718933.86	0.2650	0.1579
Mercury	43810-03-17 10:19 G	17722408.78	17722408.93	17722409.09	0.2684	0.0655
Mercury	43813-09-12 23:17 G	17723684.37	17723684.47	17723684.58	0.2652	0.0295
Mercury	43826-09-15 16:19 G	17728435.08	17728435.18	17728435.28	0.2658	0.0831
Mercury	43833-09-08 18:43 G	17730985.24	17730985.28	17730985.32	0.2649	0.2456
Mercury	43839-09-18 09:36 G	17733185.85	17733185.90	17733185.96	0.2659	0.2215
Mercury	43843-03-15 06:14 G	17734459.66	17734459.76	17734459.86	0.2680	0.2110
Mercury	43846-09-11 11:17 G	17735735.87	17735735.97	17735736.06	0.2650	0.1278
Mercury	43856-03-17 17:46 G	17739211.10	17739211.24	17739211.37	0.2685	0.1474
Mercury	43859-09-14 04:05 G	17740486.56	17740486.67	17740486.78	0.2654	0.0155
Mercury	43872-09-15 21:07 G	17745237.28	17745237.38	17745237.47	0.2658	0.1194
Venus	43874-12-20 11:02 G	17746062.81	17746062.96	17746063.11	0.2655	0.0511
Mercury	43879-09-09 23:17 G	17747787.42	17747787.47	17747787.53	0.2649	0.2254
Venus	43882-12-18 07:12 G	17748982.76	17748982.80	17748982.84	0.2655	0.2530
Mercury	43885-09-18 14:38 G	17749988.06	17749988.11	17749988.15	0.2659	0.2384
Mercury	43889-03-15 13:41 G	17751261.92	17751262.07	17751262.21	0.2681	0.1293
Mercury	43892-09-11 15:50 G	17752538.07	17752538.16	17752538.26	0.2650	0.1083
Mercury	43902-03-20 00:43 G	17756013.42	17756013.53	17756013.65	0.2685	0.1833
Mercury	43905-09-15 08:38 G	17757288.76	17757288.86	17757288.97	0.2656	0.0195
Mercury	43918-09-18 01:55 G	17762039.49	17762039.58	17762039.67	0.2658	0.1341

Mercury	43925-09-11 03:50 G	17764589.59	17764589.66	17764589.73	0.2649	0.1974
Mercury	43935-03-17 20:53 G	17768064.22	17768064.37	17768064.53	0.2683	0.0815
Mercury	43938-09-13 20:38 G	17769340.26	17769340.36	17769340.46	0.2651	0.0838
Mercury	43948-03-20 08:10 G	17772815.82	17772815.84	17772815.85	0.2685	0.2667
Mercury	43951-09-16 13:26 G	17774090.95	17774091.06	17774091.17	0.2656	0.0356
Mercury	43964-09-18 06:43 G	17778841.70	17778841.78	17778841.86	0.2659	0.1697
Mercury	43971-09-12 08:38 G	17781391.78	17781391.86	17781391.94	0.2649	0.1822
Mercury	43981-03-18 04:05 G	17784866.51	17784866.67	17784866.84	0.2684	0.0145
Mercury	43984-09-14 01:12 G	17786142.45	17786142.55	17786142.66	0.2653	0.0569
Mercury	43997-09-16 18:14 G	17790893.15	17790893.26	17790893.36	0.2656	0.0637

45TH MILLENNIUM CE

This is a list of transits visible from Moon in the 45th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	44010-09-19 11:31 G	17795643.91	17795643.98	17795644.06	0.2660	0.1894		
Venus	44012-06-19 18:00 G	17796283.08	17796283.25	17796283.41	0.2680	0.0186		
Mercury	44017-09-12 13:12 G	17798193.96	17798194.05	17798194.14	0.2649	0.1485		
Mercury	44027-03-19 11:17 G	17801668.81	17801668.97	17801669.13	0.2684	0.0426		
Mercury	44030-09-15 06:00 G	17802944.64	17802944.75	17802944.85	0.2654	0.0429		
Mercury	44043-09-17 23:02 G	17807695.36	17807695.46	17807695.56	0.2657	0.0892		
Mercury	44050-09-11 01:12 G	17810245.51	17810245.55	17810245.59	0.2649	0.2431		
Mercury	44056-09-19 16:19 G	17812446.12	17812446.18	17812446.24	0.2660	0.2173		
Mercury	44060-03-16 07:26 G	17813719.72	17813719.81	17813719.91	0.2681	0.2153		

Mercury	44063-09-13 17:46 G	17814996.15	17814996.24	17814996.34	0.2650	0.1372
Mercury	44073-03-19 18:43 G	17818471.13	17818471.28	17818471.43	0.2684	0.1018
Mercury	44076-09-15 10:34 G	17819746.83	17819746.94	17819747.05	0.2654	0.0070
Mercury	44089-09-18 03:50 G	17824497.56	17824497.66	17824497.76	0.2658	0.1103
Mercury	44096-09-11 06:00 G	17827047.70	17827047.75	17827047.80	0.2649	0.2279
Mercury	44102-09-21 21:07 G	17829248.34	17829248.38	17829248.42	0.2659	0.2415
Mercury	44106-03-18 14:38 G	17830521.99	17830522.11	17830522.23	0.2682	0.1799
Mercury	44109-09-14 22:34 G	17831798.34	17831798.44	17831798.53	0.2652	0.1045
Venus	44117-12-22 20:53 G	17834819.22	17834819.37	17834819.53	0.2645	0.0801
Mercury	44119-03-22 02:10 G	17835273.47	17835273.59	17835273.71	0.2684	0.1753
Mercury	44122-09-17 15:22 G	17836549.03	17836549.14	17836549.25	0.2654	0.0074
Mercury	44135-09-20 08:38 G	17841299.77	17841299.86	17841299.95	0.2659	0.1439
Mercury	44142-09-13 10:34 G	17843849.87	17843849.94	17843850.01	0.2649	0.1987
Mercury	44148-09-22 01:55 G	17846050.58	17846050.58	17846050.59	0.2659	0.2649
Mercury	44152-03-18 21:50 G	17847324.26	17847324.41	17847324.56	0.2682	0.0968
Mercury	44155-09-16 03:07 G	17848600.53	17848600.63	17848600.73	0.2652	0.0897
Mercury	44165-03-22 09:36 G	17852075.81	17852075.90	17852075.99	0.2685	0.2210
Mercury	44168-09-17 20:10 G	17853351.23	17853351.34	17853351.44	0.2656	0.0432
Mercury	44181-09-20 13:26 G	17858101.97	17858102.06	17858102.14	0.2659	0.1581
Mercury	44188-09-13 15:07 G	17860652.05	17860652.13	17860652.21	0.2650	0.1784
Mercury	44198-03-20 05:17 G	17864126.56	17864126.72	17864126.88	0.2683	0.0562
Mercury	44201-09-17 07:55 G	17865402.72	17865402.83	17865402.93	0.2652	0.0589
Mercury	44214-09-20 00:58 G	17870153.43	17870153.54	17870153.64	0.2658	0.0582
Mercury	44227-09-22 18:14 G	17874904.18	17874904.26	17874904.33	0.2659	0.1942
Mercury	44234-09-15 19:41 G	17877454.24	17877454.32	17877454.41	0.2650	0.1593
Mercury	44244-03-21 12:43 G	17880928.87	17880929.03	17880929.19	0.2684	0.0261
Venus	44247-06-24 18:58 G	17882119.25	17882119.29	17882119.33	0.2679	0.2585
Mercury	44247-09-18 12:29 G	17882204.92	17882205.02	17882205.13	0.2653	0.0390
Venus	44255-06-22 08:10 G	17885038.73	17885038.84	17885038.95	0.2684	0.1836
Mercury	44260-09-20 05:31 G	17886955.63	17886955.73	17886955.83	0.2658	0.0913

Mercury	44267-09-14 07:55 G	17889505.80	17889505.83	17889505.86	0.2649	0.2528
Mercury	44273-09-22 23:02 G	17891706.40	17891706.46	17891706.52	0.2659	0.2104
Mercury	44277-03-19 08:24 G	17892979.81	17892979.85	17892979.90	0.2680	0.2558
Mercury	44280-09-16 00:29 G	17894256.42	17894256.52	17894256.61	0.2650	0.1297
Mercury	44290-03-22 20:10 G	17897731.18	17897731.34	17897731.49	0.2685	0.0734
Mercury	44293-09-18 17:17 G	17899007.11	17899007.22	17899007.33	0.2655	0.0142
Mercury	44306-09-22 10:19 G	17903757.84	17903757.93	17903758.03	0.2658	0.1087
Mercury	44313-09-15 12:29 G	17906307.96	17906308.02	17906308.08	0.2650	0.2210
Mercury	44319-09-25 03:50 G	17908508.62	17908508.66	17908508.70	0.2659	0.2452
Mercury	44323-03-21 15:50 G	17909782.05	17909782.16	17909782.28	0.2681	0.1903
Mercury	44326-09-18 05:02 G	17911058.62	17911058.71	17911058.81	0.2650	0.1140
Mercury	44336-03-24 03:07 G	17914533.50	17914533.63	17914533.77	0.2685	0.1416
Mercury	44339-09-20 22:05 G	17915809.31	17915809.42	17915809.52	0.2656	0.0182
Mercury	44352-09-22 15:07 G	17920560.04	17920560.13	17920560.22	0.2658	0.1376
Mercury	44359-09-16 17:02 G	17923110.15	17923110.21	17923110.28	0.2649	0.2092
Venus	44360-12-24 12:43 G	17923574.87	17923575.03	17923575.18	0.2651	0.0488
Mercury	44365-09-25 08:38 G	17925310.85	17925310.86	17925310.87	0.2660	0.2633
Mercury	44369-03-21 23:17 G	17926584.33	17926584.47	17926584.61	0.2683	0.1409
Mercury	44372-09-18 09:50 G	17927860.80	17927860.91	17927861.01	0.2652	0.0807
Mercury	44382-03-25 10:34 G	17931335.83	17931335.94	17931336.05	0.2685	0.1985
Mercury	44385-09-21 02:38 G	17932611.51	17932611.61	17932611.72	0.2656	0.0312
Mercury	44398-09-23 19:55 G	17937362.25	17937362.33	17937362.42	0.2659	0.1647
Mercury	44405-09-16 21:50 G	17939912.33	17939912.41	17939912.49	0.2649	0.1754
Mercury	44415-03-23 06:29 G	17943386.61	17943386.77	17943386.93	0.2684	0.0635
Mercury	44418-09-19 14:24 G	17944663.00	17944663.10	17944663.21	0.2654	0.0685
Mercury	44428-03-25 18:00 G	17948138.21	17948138.25	17948138.29	0.2684	0.2581
Mercury	44431-09-22 07:26 G	17949413.71	17949413.81	17949413.91	0.2657	0.0648
Mercury	44444-09-24 00:43 G	17954164.46	17954164.53	17954164.61	0.2660	0.1852
Mercury	44451-09-18 02:24 G	17956714.52	17956714.60	17956714.69	0.2650	0.1605
Mercury	44461-03-23 13:41 G	17960188.90	17960189.07	17960189.23	0.2684	0.0271

Mercury	44464-09-19 19:12 G	17961465.19	17961465.30	17961465.40	0.2655	0.0349
Mercury	44477-09-22 12:14 G	17966215.91	17966216.01	17966216.11	0.2657	0.0796
Mercury	44484-09-15 14:24 G	17968766.07	17968766.10	17968766.14	0.2649	0.2491
Mercury	44490-09-25 05:31 G	17970966.67	17970966.73	17970966.79	0.2660	0.2180
Mercury	44497-09-18 06:58 G	17973516.70	17973516.79	17973516.89	0.2651	0.1326
Venus	44498-06-23 18:43 G	17973795.13	17973795.28	17973795.44	0.2687	0.0265
Mercury	44507-03-25 20:53 G	17976991.21	17976991.37	17976991.53	0.2684	0.0576
Mercury	44510-09-21 23:46 G	17978267.39	17978267.49	17978267.60	0.2655	0.0211
Mercury	44523-09-24 17:02 G	17983018.11	17983018.21	17983018.31	0.2659	0.1164
Mercury	44530-09-17 19:12 G	17985568.25	17985568.30	17985568.35	0.2649	0.2290
Mercury	44536-09-26 10:19 G	17987768.88	17987768.93	17987768.98	0.2660	0.2328
Mercury	44540-03-22 17:02 G	17989042.11	17989042.21	17989042.30	0.2682	0.2176
Mercury	44543-09-20 11:46 G	17990318.89	17990318.99	17990319.08	0.2652	0.1109
Mercury	44553-03-26 04:34 G	17993793.54	17993793.69	17993793.84	0.2684	0.1018
Mercury	44556-09-22 04:34 G	17995069.58	17995069.69	17995069.80	0.2655	0.0133
Mercury	44569-09-24 21:50 G	17999820.32	17999820.41	17999820.50	0.2660	0.1311
Mercury	44576-09-17 23:46 G	18002370.42	18002370.49	18002370.56	0.2650	0.2001
Mercury	44586-03-24 00:14 G	18005844.38	18005844.51	18005844.63	0.2682	0.1682
Mercury	44589-09-20 16:19 G	18007121.08	18007121.18	18007121.28	0.2652	0.0906
Mercury	44599-03-27 12:00 G	18010595.88	18010596.00	18010596.12	0.2685	0.1821
Mercury	44602-09-24 09:22 G	18011871.78	18011871.89	18011872.00	0.2657	0.0333
Venus	44603-12-28 01:26 G	18012331.41	18012331.56	18012331.71	0.2647	0.1063
Venus	44611-12-25 15:22 G	18015251.04	18015251.14	18015251.25	0.2642	0.2035
Mercury	44615-09-27 02:38 G	18016622.52	18016622.61	18016622.69	0.2660	0.1649
Mercury	44622-09-20 04:19 G	18019172.61	18019172.68	18019172.76	0.2650	0.1870
Mercury	44632-03-25 07:26 G	18022646.67	18022646.81	18022646.96	0.2682	0.1032
Mercury	44635-09-22 21:07 G	18023923.27	18023923.38	18023923.48	0.2653	0.0616
Mercury	44645-03-28 19:12 G	18027398.21	18027398.30	18027398.38	0.2685	0.2263
Mercury	44648-09-24 14:10 G	18028673.98	18028674.09	18028674.19	0.2658	0.0583
Mercury	44661-09-27 07:26 G	18033424.73	18033424.81	18033424.88	0.2660	0.1832

Mercury	44668-09-20 08:53 G	18035974.79	18035974.87	18035974.96	0.2651	0.1540
Mercury	44678-03-26 15:07 G	18039448.97	18039449.13	18039449.29	0.2683	0.0345
Mercury	44681-09-23 01:41 G	18040725.47	18040725.57	18040725.68	0.2654	0.0452
Mercury	44694-09-25 18:43 G	18045476.18	18045476.28	18045476.38	0.2659	0.0869
Mercury	44701-09-19 21:07 G	18048026.34	18048026.38	18048026.42	0.2650	0.2471
Mercury	44707-09-29 12:14 G	18050226.95	18050227.01	18050227.07	0.2660	0.2121
Mercury	44714-09-22 13:41 G	18052776.98	18052777.07	18052777.16	0.2651	0.1421
Mercury	44724-03-27 22:19 G	18056251.27	18056251.43	18056251.60	0.2684	0.0149
Mercury	44727-09-25 06:29 G	18057527.66	18057527.77	18057527.88	0.2656	0.0108
Venus	44733-06-28 23:31 G	18059631.39	18059631.48	18059631.57	0.2678	0.2240
Mercury	44740-09-26 23:31 G	18062278.38	18062278.48	18062278.58	0.2659	0.1045
Venus	44741-06-26 09:50 G	18062550.79	18062550.91	18062551.02	0.2681	0.1931
Mercury	44747-09-21 01:41 G	18064828.52	18064828.57	18064828.62	0.2650	0.2315
Mercury	44753-09-29 17:02 G	18067029.17	18067029.21	18067029.26	0.2660	0.2402
Mercury	44757-03-25 18:14 G	18068302.23	18068302.26	18068302.29	0.2681	0.2614
Mercury	44760-09-22 18:14 G	18069579.16	18069579.26	18069579.36	0.2651	0.1073
Mercury	44770-03-29 05:31 G	18073053.58	18073053.73	18073053.88	0.2684	0.0891
Mercury	44773-09-25 11:17 G	18074329.86	18074329.97	18074330.07	0.2657	0.0094
Mercury	44786-09-28 04:19 G	18079080.59	18079080.68	18079080.77	0.2659	0.1385
Mercury	44793-09-21 06:14 G	18081630.70	18081630.76	18081630.83	0.2650	0.2064
Mercury	44799-09-30 21:50 G	18083831.39	18083831.41	18083831.43	0.2660	0.2594
Mercury	44803-03-27 01:41 G	18085104.45	18085104.57	18085104.69	0.2683	0.1799
Mercury	44806-09-23 23:02 G	18086381.36	18086381.46	18086381.56	0.2653	0.0927
Mercury	44816-03-29 12:43 G	18089855.89	18089856.03	18089856.18	0.2684	0.1300
Mercury	44819-09-26 15:50 G	18091132.06	18091132.16	18091132.27	0.2657	0.0381
Mercury	44832-09-28 09:22 G	18095882.80	18095882.89	18095882.97	0.2660	0.1546
Mercury	44839-09-22 11:02 G	18098432.88	18098432.96	18098433.03	0.2650	0.1827
Venus	44846-12-28 16:19 G	18101087.02	18101087.18	18101087.34	0.2646	0.0206
Mercury	44849-03-27 08:53 G	18101906.73	18101906.87	18101907.01	0.2683	0.1389
Mercury	44852-09-24 03:36 G	18103183.55	18103183.65	18103183.76	0.2654	0.0645

Mercury	44862-03-30 20:24 G	18106658.25	18106658.35	18106658.44	0.2684	0.2141
Mercury	44865-09-26 20:38 G	18107934.26	18107934.36	18107934.47	0.2657	0.0519
Mercury	44878-09-29 14:10 G	18112685.02	18112685.09	18112685.16	0.2661	0.1913
Mercury	44885-09-22 15:36 G	18115235.07	18115235.15	18115235.24	0.2650	0.1620
Mercury	44895-03-28 16:05 G	18118709.01	18118709.17	18118709.33	0.2683	0.0640
Mercury	44898-09-25 08:24 G	18119985.74	18119985.85	18119985.95	0.2655	0.0428
Mercury	44908-04-01 03:50 G	18123460.62	18123460.66	18123460.71	0.2684	0.2572
Mercury	44911-09-29 01:26 G	18124736.46	18124736.56	18124736.66	0.2658	0.0857
Mercury	44918-09-22 03:36 G	18127286.63	18127286.65	18127286.67	0.2650	0.2593
Mercury	44924-09-30 18:58 G	18129487.22	18129487.29	18129487.35	0.2661	0.2051
Mercury	44931-09-24 20:10 G	18132037.25	18132037.34	18132037.43	0.2652	0.1335
Mercury	44941-03-29 23:31 G	18135511.32	18135511.48	18135511.64	0.2683	0.0128
Mercury	44944-09-26 12:58 G	18136787.94	18136788.04	18136788.15	0.2655	0.0208
Mercury	44957-09-29 06:14 G	18141538.67	18141538.76	18141538.86	0.2660	0.1078
Mercury	44964-09-22 08:24 G	18144088.79	18144088.85	18144088.90	0.2650	0.2248
Mercury	44970-10-01 23:46 G	18146289.44	18146289.49	18146289.53	0.2660	0.2392
Venus	44976-06-29 22:48 G	18148387.42	18148387.45	18148387.48	0.2692	0.2609
Mercury	44977-09-25 00:43 G	18148839.44	18148839.53	18148839.63	0.2653	0.1209
Venus	44984-06-27 17:31 G	18151307.09	18151307.23	18151307.37	0.2692	0.1113
Mercury	44987-03-31 06:58 G	18152313.63	18152313.79	18152313.95	0.2683	0.0523
Mercury	44990-09-27 17:46 G	18153590.13	18153590.24	18153590.35	0.2656	0.0092

46TH MILLENNIUM CE

This is a list of transits visible from Moon in the 46th millennium CE.

PLANET	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
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TRANSIT

TIME

Mercury	45003-10-01 11:02 G	18158340.87	18158340.96	18158341.05	0.2660	0.1320
Mercury	45010-09-24 12:58 G	18160890.98	18160891.04	18160891.10	0.2650	0.2124
Mercury	45016-10-03 04:34 G	18163091.67	18163091.69	18163091.71	0.2659	0.2588
Mercury	45020-03-29 02:38 G	18164364.53	18164364.61	18164364.69	0.2682	0.2289
Mercury	45023-09-27 05:31 G	18165641.63	18165641.73	18165641.83	0.2653	0.0856
Mercury	45033-04-01 14:24 G	18169115.95	18169116.10	18169116.24	0.2684	0.1203
Mercury	45036-09-28 22:34 G	18170392.33	18170392.44	18170392.55	0.2657	0.0268
Mercury	45049-10-01 15:50 G	18175143.08	18175143.16	18175143.24	0.2660	0.1595
Mercury	45056-09-24 17:31 G	18177693.15	18177693.23	18177693.31	0.2651	0.1816
Mercury	45066-03-30 10:05 G	18181166.78	18181166.92	18181167.05	0.2682	0.1490
Mercury	45069-09-27 10:19 G	18182443.82	18182443.93	18182444.03	0.2653	0.0737
Mercury	45079-04-02 21:36 G	18185918.27	18185918.40	18185918.52	0.2684	0.1673
Mercury	45082-09-30 03:22 G	18187194.54	18187194.64	18187194.74	0.2659	0.0620
Venus	45089-12-31 03:50 G	18189843.54	18189843.66	18189843.79	0.2650	0.1417
Mercury	45095-10-02 20:38 G	18191945.28	18191945.36	18191945.44	0.2660	0.1789
Venus	45097-12-28 21:07 G	18192763.27	18192763.38	18192763.48	0.2645	0.1972
Mercury	45102-09-26 22:05 G	18194495.34	18194495.42	18194495.50	0.2652	0.1651
Mercury	45112-03-31 17:31 G	18197969.08	18197969.23	18197969.38	0.2683	0.1069
Mercury	45115-09-29 14:53 G	18199246.02	18199246.12	18199246.23	0.2654	0.0392
Mercury	45125-04-04 04:34 G	18202720.62	18202720.69	18202720.76	0.2684	0.2415
Mercury	45128-10-01 08:10 G	18203996.74	18203996.84	18203996.94	0.2660	0.0748
Mercury	45135-09-25 10:19 G	18206546.90	18206546.93	18206546.96	0.2650	0.2535
Mercury	45141-10-04 01:26 G	18208747.50	18208747.56	18208747.62	0.2660	0.2135
Mercury	45148-09-27 02:53 G	18211297.53	18211297.62	18211297.71	0.2652	0.1388
Mercury	45158-04-02 00:43 G	18214771.37	18214771.53	18214771.69	0.2684	0.0260
Mercury	45161-09-29 19:41 G	18216048.22	18216048.32	18216048.43	0.2656	0.0228
Mercury	45174-10-02 12:43 G	18220798.94	18220799.03	18220799.13	0.2659	0.1114
Mercury	45181-09-25 14:53 G	18223349.07	18223349.12	18223349.16	0.2651	0.2365

Mercury	45187-10-05 06:29 G	18225549.71	18225549.77	18225549.82	0.2660	0.2291
Mercury	45194-09-28 07:26 G	18228099.72	18228099.81	18228099.91	0.2652	0.1156
Mercury	45204-04-02 07:55 G	18231573.67	18231573.83	18231574.00	0.2684	0.0157
Mercury	45207-10-01 00:29 G	18232850.41	18232850.52	18232850.63	0.2658	0.0074
Venus	45219-07-03 03:36 G	18237143.56	18237143.65	18237143.74	0.2679	0.2225
Mercury	45220-10-02 17:46 G	18237601.14	18237601.24	18237601.33	0.2660	0.1264
Venus	45227-06-30 12:58 G	18240062.90	18240063.04	18240063.18	0.2679	0.1502
Mercury	45227-09-26 19:26 G	18240151.24	18240151.31	18240151.38	0.2651	0.2054
Mercury	45233-10-05 11:02 G	18242351.96	18242351.96	18242351.97	0.2660	0.2654
Mercury	45237-03-31 04:05 G	18243624.61	18243624.67	18243624.74	0.2682	0.2433
Mercury	45240-09-28 12:14 G	18244901.91	18244902.01	18244902.11	0.2653	0.0946
Mercury	45250-04-03 15:22 G	18248375.99	18248376.14	18248376.29	0.2683	0.0902
Mercury	45253-10-01 05:02 G	18249652.61	18249652.71	18249652.82	0.2658	0.0306
Mercury	45266-10-03 22:34 G	18254403.35	18254403.44	18254403.52	0.2660	0.1592
Mercury	45273-09-27 00:14 G	18256953.43	18256953.51	18256953.58	0.2650	0.1927
Mercury	45283-04-01 11:17 G	18260426.86	18260426.97	18260427.08	0.2683	0.1907
Mercury	45286-09-29 16:48 G	18261704.10	18261704.20	18261704.31	0.2655	0.0649
Mercury	45296-04-03 22:48 G	18265178.31	18265178.45	18265178.59	0.2683	0.1439
Mercury	45299-10-02 09:50 G	18266454.81	18266454.91	18266455.02	0.2658	0.0529
Mercury	45312-10-05 03:22 G	18271205.56	18271205.64	18271205.72	0.2661	0.1813
Mercury	45319-09-29 04:48 G	18273755.61	18273755.70	18273755.79	0.2651	0.1578
Mercury	45329-04-02 18:29 G	18277229.12	18277229.27	18277229.41	0.2683	0.1220
Mercury	45332-09-30 21:36 G	18278506.29	18278506.40	18278506.50	0.2656	0.0515
Venus	45333-01-01 23:02 G	18278599.30	18278599.46	18278599.63	0.2641	0.0228
Mercury	45342-04-06 06:14 G	18281980.66	18281980.76	18281980.86	0.2682	0.2060
Mercury	45345-10-03 14:38 G	18283257.01	18283257.11	18283257.21	0.2659	0.0815
Mercury	45352-09-26 16:48 G	18285807.17	18285807.20	18285807.23	0.2650	0.2534
Mercury	45358-10-06 08:10 G	18288007.77	18288007.84	18288007.90	0.2661	0.2059
Mercury	45365-09-29 09:22 G	18290557.80	18290557.89	18290557.98	0.2653	0.1460
Mercury	45375-04-04 01:55 G	18294031.43	18294031.58	18294031.74	0.2682	0.0745

Mercury	45378-10-02 02:10 G	18295308.49	18295308.59	18295308.70	0.2656	0.0177
Mercury	45391-10-04 19:26 G	18300059.22	18300059.31	18300059.41	0.2660	0.1003
Mercury	45398-09-27 21:36 G	18302609.35	18302609.40	18302609.44	0.2650	0.2362
Mercury	45404-10-07 12:58 G	18304809.99	18304810.04	18304810.09	0.2660	0.2331
Mercury	45411-10-01 14:10 G	18307359.99	18307360.09	18307360.18	0.2654	0.1145
Mercury	45421-04-05 09:22 G	18310833.73	18310833.89	18310834.05	0.2683	0.0073
Mercury	45424-10-03 06:58 G	18312110.68	18312110.79	18312110.90	0.2656	0.0054
Mercury	45437-10-06 00:14 G	18316861.42	18316861.51	18316861.61	0.2661	0.1354
Mercury	45444-09-29 02:10 G	18319411.53	18319411.59	18319411.65	0.2651	0.2102
Mercury	45450-10-08 17:46 G	18321612.21	18321612.24	18321612.27	0.2660	0.2529
Mercury	45454-04-03 05:02 G	18322884.70	18322884.71	18322884.73	0.2682	0.2666
Mercury	45457-10-01 18:43 G	18324162.18	18324162.28	18324162.38	0.2654	0.0979
Venus	45462-07-04 20:53 G	18325899.26	18325899.37	18325899.48	0.2691	0.1883
Mercury	45467-04-06 16:48 G	18327636.04	18327636.20	18327636.36	0.2683	0.0461
Venus	45470-07-02 15:22 G	18328819.04	18328819.14	18328819.24	0.2694	0.2032
Mercury	45470-10-04 11:46 G	18328912.89	18328912.99	18328913.10	0.2658	0.0330
Mercury	45483-10-07 05:02 G	18333663.63	18333663.71	18333663.80	0.2661	0.1484
Mercury	45490-09-30 06:43 G	18336213.70	18336213.78	18336213.85	0.2652	0.1871
Mercury	45500-04-04 12:43 G	18339686.94	18339687.03	18339687.12	0.2682	0.2190
Mercury	45503-10-03 23:31 G	18340964.37	18340964.48	18340964.58	0.2654	0.0698
Mercury	45513-04-08 00:00 G	18344438.35	18344438.50	18344438.64	0.2683	0.1271
Mercury	45516-10-05 16:34 G	18345715.09	18345715.19	18345715.30	0.2660	0.0495
Mercury	45529-10-08 09:50 G	18350465.84	18350465.91	18350465.99	0.2661	0.1844
Mercury	45536-10-01 11:17 G	18353015.89	18353015.97	18353016.05	0.2652	0.1706
Mercury	45546-04-05 20:10 G	18356489.21	18356489.34	18356489.47	0.2682	0.1493
Mercury	45549-10-04 04:05 G	18357766.57	18357766.67	18357766.78	0.2655	0.0476
Mercury	45559-04-09 07:12 G	18361240.67	18361240.80	18361240.93	0.2682	0.1657
Mercury	45562-10-06 21:22 G	18362517.29	18362517.39	18362517.49	0.2660	0.0791
Mercury	45569-09-29 23:31 G	18365067.47	18365067.48	18365067.48	0.2651	0.2637
Mercury	45575-10-09 14:53 G	18367268.05	18367268.12	18367268.19	0.2660	0.2013

Venus	45576-01-05 04:34 G	18367355.56	18367355.69	18367355.83	0.2651	0.1166
Mercury	45582-10-02 16:05 G	18369818.07	18369818.17	18369818.26	0.2652	0.1388
Venus	45584-01-03 00:29 G	18370275.46	18370275.52	18370275.58	0.2649	0.2404
Mercury	45592-04-06 03:22 G	18373291.49	18373291.64	18373291.79	0.2683	0.0917
Mercury	45595-10-05 08:53 G	18374568.76	18374568.87	18374568.98	0.2657	0.0256
Mercury	45605-04-09 14:38 G	18378043.04	18378043.11	18378043.17	0.2681	0.2419
Mercury	45608-10-07 02:10 G	18379319.49	18379319.59	18379319.69	0.2660	0.1005
Mercury	45615-10-01 04:05 G	18381869.62	18381869.67	18381869.72	0.2651	0.2319
Mercury	45621-10-09 19:41 G	18384070.27	18384070.32	18384070.37	0.2661	0.2331
Mercury	45628-10-02 20:38 G	18386620.27	18386620.36	18386620.46	0.2653	0.1252
Mercury	45638-04-07 10:34 G	18390093.78	18390093.94	18390094.10	0.2683	0.0379
Mercury	45641-10-05 13:41 G	18391370.96	18391371.07	18391371.18	0.2658	0.0073
Mercury	45654-10-08 06:58 G	18396121.70	18396121.79	18396121.88	0.2660	0.1260
Mercury	45661-10-01 08:38 G	18398671.80	18398671.86	18398671.92	0.2651	0.2192
Mercury	45667-10-11 00:29 G	18400872.49	18400872.52	18400872.55	0.2661	0.2541
Mercury	45674-10-04 01:26 G	18403422.46	18403422.56	18403422.66	0.2654	0.0911
Mercury	45684-04-07 17:46 G	18406896.08	18406896.24	18406896.40	0.2682	0.0311
Mercury	45687-10-06 18:29 G	18408173.16	18408173.27	18408173.37	0.2659	0.0221
Mercury	45700-10-09 11:46 G	18412923.91	18412923.99	18412924.08	0.2661	0.1558
Venus	45705-07-07 06:14 G	18414655.71	18414655.76	18414655.81	0.2683	0.2557
Mercury	45707-10-03 13:12 G	18415473.98	18415474.05	18415474.13	0.2651	0.1867
Venus	45713-07-04 16:34 G	18417575.05	18417575.19	18417575.34	0.2680	0.1353
Mercury	45717-04-06 13:55 G	18418947.00	18418947.08	18418947.16	0.2682	0.2305
Mercury	45720-10-05 06:00 G	18420224.65	18420224.75	18420224.85	0.2656	0.0782
Mercury	45730-04-10 01:12 G	18423698.40	18423698.55	18423698.71	0.2681	0.0779
Mercury	45733-10-07 23:02 G	18424975.36	18424975.46	18424975.57	0.2659	0.0560
Mercury	45746-10-10 16:34 G	18429726.11	18429726.19	18429726.27	0.2662	0.1736
Mercury	45753-10-03 18:00 G	18432276.17	18432276.25	18432276.33	0.2652	0.1699
Mercury	45763-04-07 21:07 G	18435749.27	18435749.38	18435749.49	0.2682	0.1946
Mercury	45766-10-06 10:48 G	18437026.84	18437026.95	18437027.05	0.2657	0.0451

Mercury	45776-04-10 08:38 G	18440500.73	18440500.86	18440500.99	0.2681	0.1594
Mercury	45779-10-09 04:05 G	18441777.56	18441777.67	18441777.77	0.2660	0.0704
Mercury	45786-10-02 06:00 G	18444327.73	18444327.75	18444327.77	0.2651	0.2588
Mercury	45792-10-10 21:22 G	18446528.33	18446528.39	18446528.46	0.2662	0.2080
Mercury	45799-10-04 22:34 G	18449078.35	18449078.44	18449078.53	0.2653	0.1450
Mercury	45809-04-09 04:34 G	18452551.54	18452551.69	18452551.83	0.2682	0.1137
Mercury	45812-10-07 15:36 G	18453829.04	18453829.15	18453829.25	0.2657	0.0311
Venus	45819-01-07 07:26 G	18456111.66	18456111.81	18456111.97	0.2638	0.1016
Mercury	45822-04-12 15:50 G	18457303.05	18457303.16	18457303.27	0.2682	0.1944
Mercury	45825-10-10 08:53 G	18458579.77	18458579.87	18458579.97	0.2661	0.1059
Venus	45827-01-04 19:12 G	18459031.24	18459031.30	18459031.36	0.2639	0.2443
Mercury	45832-10-03 10:34 G	18461129.90	18461129.94	18461129.98	0.2651	0.2418
Mercury	45838-10-13 02:10 G	18463330.53	18463330.59	18463330.65	0.2661	0.2218
Mercury	45845-10-06 03:07 G	18465880.54	18465880.63	18465880.73	0.2655	0.1206
Mercury	45855-04-10 12:00 G	18469353.84	18469354.00	18469354.16	0.2682	0.0653
Mercury	45858-10-08 20:10 G	18470631.24	18470631.34	18470631.45	0.2657	0.0086
Mercury	45871-10-11 13:41 G	18475381.97	18475382.07	18475382.16	0.2661	0.1220
Mercury	45878-10-04 15:07 G	18477932.07	18477932.13	18477932.20	0.2651	0.2107
Mercury	45884-10-13 06:58 G	18480132.77	18480132.79	18480132.82	0.2660	0.2578
Mercury	45891-10-07 07:55 G	18482682.73	18482682.83	18482682.93	0.2655	0.1029
Mercury	45901-04-11 19:12 G	18486156.14	18486156.30	18486156.46	0.2682	0.0047
Mercury	45904-10-10 00:58 G	18487433.44	18487433.54	18487433.65	0.2659	0.0251
Mercury	45917-10-12 18:14 G	18492184.18	18492184.26	18492184.35	0.2662	0.1526
Mercury	45924-10-05 19:55 G	18494734.26	18494734.33	18494734.40	0.2653	0.1991
Mercury	45937-10-08 12:43 G	18499484.92	18499485.03	18499485.13	0.2655	0.0710
Mercury	45947-04-13 02:24 G	18502958.44	18502958.60	18502958.76	0.2682	0.0568
Venus	45948-07-08 19:55 G	18503411.18	18503411.33	18503411.47	0.2689	0.0988
Mercury	45950-10-11 05:46 G	18504235.64	18504235.74	18504235.85	0.2660	0.0463
Venus	45956-07-06 12:14 G	18506330.96	18506331.01	18506331.07	0.2693	0.2499
Mercury	45963-10-13 23:02 G	18508986.38	18508986.46	18508986.54	0.2661	0.1740

Mercury	45970-10-07 00:29 G	18511536.44	18511536.52	18511536.60	0.2653	0.1655
Mercury	45980-04-09 22:34 G	18515009.34	18515009.44	18515009.55	0.2682	0.1984
Mercury	45983-10-09 17:17 G	18516287.12	18516287.22	18516287.33	0.2656	0.0577
Mercury	45993-04-13 09:36 G	18519760.75	18519760.90	18519761.05	0.2681	0.1124
Mercury	45996-10-11 10:34 G	18521037.84	18521037.94	18521038.04	0.2661	0.0770

47TH MILLENNIUM CE

This is a list of transits visible from Moon in the 47th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	46003-10-05 12:29 G		18523588.00	18523588.02	18523588.04	0.2652	0.2599	
Mercury	46009-10-14 04:05 G		18525788.60	18525788.67	18525788.74	0.2661	0.1993	
Mercury	46016-10-07 05:17 G		18528338.63	18528338.72	18528338.80	0.2653	0.1533	
Mercury	46026-04-11 05:46 G		18531811.61	18531811.74	18531811.87	0.2682	0.1617	
Mercury	46029-10-09 22:05 G		18533089.31	18533089.42	18533089.53	0.2658	0.0214	
Mercury	46039-04-14 16:48 G		18536563.08	18536563.20	18536563.32	0.2680	0.1819	
Mercury	46042-10-12 15:22 G		18537840.04	18537840.14	18537840.24	0.2661	0.0924	
Mercury	46049-10-05 17:02 G		18540390.17	18540390.21	18540390.26	0.2652	0.2419	
Mercury	46055-10-15 08:53 G		18542590.82	18542590.87	18542590.92	0.2661	0.2296	
Venus	46062-01-08 05:31 G		18544867.58	18544867.73	18544867.88	0.2650	0.0506	
Mercury	46062-10-08 09:50 G		18545140.82	18545140.91	18545141.01	0.2653	0.1193	
Venus	46070-01-06 01:55 G		18547787.54	18547787.58	18547787.62	0.2651	0.2524	
Mercury	46072-04-11 12:58 G		18548613.89	18548614.04	18548614.19	0.2682	0.0809	
Mercury	46075-10-11 02:53 G		18549891.51	18549891.62	18549891.73	0.2659	0.0087	

Mercury	46085-04-15 00:14 G	18553365.42	18553365.51	18553365.60	0.2679	0.2248
Mercury	46088-10-12 20:10 G	18554642.25	18554642.34	18554642.43	0.2661	0.1276
Mercury	46095-10-06 21:50 G	18557192.35	18557192.41	18557192.46	0.2652	0.2201
Mercury	46101-10-16 13:41 G	18559393.03	18559393.07	18559393.11	0.2661	0.2459
Mercury	46108-10-09 14:38 G	18561943.01	18561943.11	18561943.21	0.2655	0.1027
Mercury	46118-04-13 20:24 G	18565416.19	18565416.35	18565416.51	0.2681	0.0426
Mercury	46121-10-12 07:41 G	18566693.71	18566693.82	18566693.92	0.2659	0.0283
Mercury	46134-10-15 00:58 G	18571444.46	18571444.54	18571444.63	0.2661	0.1437
Mercury	46141-10-08 02:24 G	18573994.53	18573994.60	18573994.67	0.2652	0.1929
Mercury	46154-10-10 19:12 G	18578745.20	18578745.30	18578745.40	0.2657	0.0777
Mercury	46164-04-14 03:50 G	18582218.50	18582218.66	18582218.82	0.2680	0.0376
Mercury	46167-10-13 12:14 G	18583495.91	18583496.01	18583496.12	0.2659	0.0428
Mercury	46180-10-15 06:00 G	18588246.67	18588246.75	18588246.82	0.2662	0.1791
Mercury	46187-10-09 07:12 G	18590796.72	18590796.80	18590796.88	0.2652	0.1759
Venus	46191-07-11 06:29 G	18592167.73	18592167.77	18592167.82	0.2689	0.2550
Mercury	46197-04-11 23:46 G	18594269.42	18594269.49	18594269.56	0.2681	0.2393
Venus	46199-07-08 19:55 G	18595087.21	18595087.33	18595087.45	0.2684	0.1771
Mercury	46200-10-12 00:00 G	18595547.39	18595547.50	18595547.60	0.2658	0.0529
Mercury	46210-04-16 11:02 G	18599020.81	18599020.96	18599021.12	0.2680	0.0828
Mercury	46213-10-14 17:17 G	18600298.11	18600298.22	18600298.32	0.2660	0.0732
Mercury	46226-10-17 10:34 G	18605048.87	18605048.94	18605049.02	0.2662	0.1939
Mercury	46233-10-10 11:46 G	18607598.90	18607598.99	18607599.08	0.2654	0.1445
Mercury	46243-04-14 07:12 G	18611071.68	18611071.80	18611071.92	0.2681	0.1747
Mercury	46246-10-13 04:34 G	18612349.59	18612349.69	18612349.80	0.2657	0.0340
Mercury	46256-04-16 18:14 G	18615823.12	18615823.26	18615823.39	0.2680	0.1503
Mercury	46259-10-15 22:05 G	18617100.32	18617100.42	18617100.52	0.2661	0.0969
Mercury	46266-10-08 23:46 G	18619650.44	18619650.49	18619650.54	0.2652	0.2369
Mercury	46272-10-17 15:22 G	18621851.09	18621851.14	18621851.20	0.2661	0.2252
Mercury	46279-10-11 16:19 G	18624401.09	18624401.18	18624401.28	0.2655	0.1330
Mercury	46289-04-14 14:38 G	18627873.96	18627874.11	18627874.25	0.2680	0.1252

Mercury	46292-10-13 09:22 G	18629151.78	18629151.89	18629152.00	0.2658	0.0052
Mercury	46302-04-19 01:12 G	18632625.45	18632625.55	18632625.66	0.2680	0.2017
Venus	46305-01-11 14:53 G	18633624.00	18633624.12	18633624.24	0.2639	0.1787
Mercury	46305-10-17 02:53 G	18633902.52	18633902.62	18633902.71	0.2662	0.1184
Mercury	46312-10-10 04:19 G	18636452.63	18636452.68	18636452.74	0.2652	0.2242
Venus	46313-01-09 03:07 G	18636543.55	18636543.63	18636543.72	0.2636	0.2274
Mercury	46318-10-19 20:10 G	18638653.31	18638653.34	18638653.38	0.2660	0.2476
Mercury	46325-10-12 21:07 G	18641203.28	18641203.38	18641203.48	0.2656	0.0980
Mercury	46335-04-16 21:50 G	18644676.25	18644676.41	18644676.57	0.2681	0.0495
Mercury	46338-10-15 14:10 G	18645953.99	18645954.09	18645954.20	0.2660	0.0161
Mercury	46348-04-19 08:24 G	18649427.81	18649427.85	18649427.89	0.2678	0.2570
Mercury	46351-10-18 07:41 G	18650704.73	18650704.82	18650704.90	0.2662	0.1489
Mercury	46358-10-11 08:53 G	18653254.80	18653254.87	18653254.95	0.2653	0.1959
Mercury	46371-10-14 01:55 G	18658005.47	18658005.58	18658005.68	0.2656	0.0863
Mercury	46381-04-17 04:48 G	18661478.54	18661478.70	18661478.86	0.2681	0.0139
Mercury	46384-10-15 18:58 G	18662756.19	18662756.29	18662756.40	0.2661	0.0506
Mercury	46397-10-18 12:29 G	18667506.93	18667507.02	18667507.10	0.2662	0.1656
Mercury	46404-10-11 13:41 G	18670056.99	18670057.07	18670057.15	0.2654	0.1768
Mercury	46417-10-14 06:29 G	18674807.67	18674807.77	18674807.88	0.2657	0.0519
Mercury	46427-04-18 12:00 G	18678280.84	18678281.00	18678281.16	0.2680	0.0668
Mercury	46430-10-16 23:46 G	18679558.39	18679558.49	18679558.60	0.2661	0.0626
Venus	46434-07-12 20:38 G	18680923.21	18680923.36	18680923.52	0.2685	0.0720
Mercury	46437-10-10 01:41 G	18682108.57	18682108.57	18682108.57	0.2652	0.2652
Venus	46442-07-10 09:50 G	18683842.88	18683842.91	18683842.94	0.2690	0.2622
Mercury	46443-10-19 17:17 G	18684309.15	18684309.22	18684309.29	0.2661	0.2012
Mercury	46450-10-12 18:14 G	18686859.17	18686859.26	18686859.35	0.2654	0.1531
Mercury	46460-04-15 08:24 G	18690331.75	18690331.85	18690331.96	0.2681	0.1993
Mercury	46463-10-15 11:17 G	18691609.87	18691609.97	18691610.08	0.2659	0.0340
Mercury	46473-04-18 19:26 G	18695083.16	18695083.31	18695083.46	0.2679	0.1055
Mercury	46476-10-17 04:34 G	18696360.59	18696360.69	18696360.79	0.2661	0.0976

Mercury	46483-10-11 06:14 G	18698910.73	18698910.76	18698910.79	0.2653	0.2509
Mercury	46489-10-19 22:05 G	18701111.36	18701111.42	18701111.48	0.2661	0.2161
Mercury	46496-10-12 23:02 G	18703661.36	18703661.46	18703661.55	0.2654	0.1271
Mercury	46506-04-17 15:36 G	18707134.02	18707134.15	18707134.28	0.2681	0.1532
Mercury	46509-10-16 16:05 G	18708412.06	18708412.17	18708412.28	0.2660	0.0082
Mercury	46519-04-21 02:38 G	18711885.49	18711885.61	18711885.73	0.2677	0.1829
Mercury	46522-10-19 09:22 G	18713162.80	18713162.89	18713162.99	0.2661	0.1145
Mercury	46529-10-12 10:48 G	18715712.89	18715712.95	18715713.01	0.2653	0.2183
Mercury	46535-10-22 02:53 G	18717913.59	18717913.62	18717913.65	0.2661	0.2511
Mercury	46542-10-15 03:36 G	18720463.56	18720463.65	18720463.75	0.2656	0.1100
Venus	46548-01-13 07:55 G	18722379.67	18722379.83	18722379.98	0.2647	0.0262
Mercury	46552-04-17 22:48 G	18723936.30	18723936.45	18723936.60	0.2680	0.0904
Mercury	46555-10-17 20:53 G	18725214.26	18725214.37	18725214.47	0.2660	0.0202
Venus	46556-01-11 03:22 G	18725299.56	18725299.64	18725299.71	0.2650	0.2277
Mercury	46565-04-21 09:50 G	18728687.82	18728687.91	18728687.99	0.2678	0.2239
Mercury	46568-10-19 14:10 G	18729965.01	18729965.09	18729965.18	0.2662	0.1451
Mercury	46575-10-13 15:36 G	18732515.08	18732515.15	18732515.21	0.2653	0.2063
Mercury	46581-10-22 07:41 G	18734715.82	18734715.82	18734715.82	0.2661	0.2651
Mercury	46588-10-15 08:24 G	18737265.75	18737265.85	18737265.95	0.2658	0.0769
Mercury	46598-04-19 06:14 G	18740738.60	18740738.76	18740738.92	0.2679	0.0251
Mercury	46601-10-19 01:26 G	18742016.46	18742016.56	18742016.67	0.2660	0.0393
Mercury	46614-10-21 18:58 G	18746767.21	18746767.29	18746767.38	0.2663	0.1698
Mercury	46621-10-14 20:10 G	18749317.26	18749317.34	18749317.43	0.2653	0.1717
Mercury	46634-10-17 13:12 G	18754067.94	18754068.05	18754068.15	0.2658	0.0651
Mercury	46644-04-20 13:26 G	18757540.90	18757541.06	18757541.22	0.2679	0.0216
Mercury	46647-10-20 06:29 G	18758818.66	18758818.77	18758818.87	0.2661	0.0705
Mercury	46660-10-21 23:46 G	18763569.42	18763569.49	18763569.57	0.2662	0.1910
Mercury	46667-10-16 00:58 G	18766119.45	18766119.54	18766119.62	0.2655	0.1587
Mercury	46677-04-18 09:50 G	18769591.84	18769591.91	18769591.97	0.2680	0.2452
Venus	46677-07-15 04:19 G	18769679.56	18769679.68	18769679.80	0.2694	0.1678

Mercury	46680-10-17 17:46 G	18770870.14	18770870.24	18770870.35	0.2658	0.0297
Venus	46685-07-12 20:53 G	18772599.28	18772599.37	18772599.45	0.2690	0.2273
Mercury	46690-04-21 20:38 G	18774343.20	18774343.36	18774343.51	0.2679	0.0946
Mercury	46693-10-20 11:17 G	18775620.87	18775620.97	18775621.07	0.2662	0.0862
Mercury	46700-10-14 12:43 G	18778171.00	18778171.03	18778171.07	0.2652	0.2490
Mercury	46706-10-24 04:34 G	18780371.64	18780371.69	18780371.75	0.2662	0.2210
Mercury	46713-10-17 05:31 G	18782921.64	18782921.73	18782921.83	0.2656	0.1296
Mercury	46723-04-20 17:02 G	18786394.09	18786394.21	18786394.34	0.2679	0.1646
Mercury	46726-10-19 22:34 G	18787672.34	18787672.44	18787672.55	0.2659	0.0171
Mercury	46736-04-23 03:36 G	18791145.51	18791145.65	18791145.79	0.2678	0.1306
Mercury	46739-10-22 16:05 G	18792423.07	18792423.17	18792423.26	0.2663	0.1222
Mercury	46746-10-15 17:31 G	18794973.18	18794973.23	18794973.28	0.2653	0.2260
Mercury	46752-10-24 09:36 G	18797173.85	18797173.90	18797173.94	0.2661	0.2381
Mercury	46759-10-18 10:19 G	18799723.83	18799723.93	18799724.02	0.2656	0.1105
Mercury	46769-04-21 00:29 G	18803196.38	18803196.52	18803196.66	0.2679	0.1250
Mercury	46772-10-20 03:22 G	18804474.54	18804474.64	18804474.75	0.2660	0.0191
Mercury	46782-04-24 10:48 G	18807947.85	18807947.95	18807948.05	0.2677	0.2097
Mercury	46785-10-22 20:53 G	18809225.28	18809225.37	18809225.46	0.2663	0.1345
Venus	46791-01-15 20:38 G	18811136.25	18811136.36	18811136.47	0.2642	0.1899
Mercury	46792-10-15 22:05 G	18811775.35	18811775.42	18811775.49	0.2654	0.2001
Venus	46799-01-13 11:02 G	18814055.86	18814055.96	18814056.05	0.2637	0.2161
Mercury	46805-10-18 14:53 G	18816526.02	18816526.12	18816526.23	0.2656	0.0850
Mercury	46815-04-22 07:26 G	18819998.65	18819998.81	18819998.97	0.2679	0.0527
Mercury	46818-10-21 08:10 G	18821276.74	18821276.84	18821276.95	0.2662	0.0376
Mercury	46828-04-24 18:00 G	18824750.19	18824750.25	18824750.31	0.2675	0.2454
Mercury	46831-10-24 01:41 G	18826027.49	18826027.57	18826027.65	0.2662	0.1697
Mercury	46838-10-17 02:38 G	18828577.54	18828577.61	18828577.69	0.2655	0.1863
Mercury	46851-10-19 19:41 G	18833328.22	18833328.32	18833328.43	0.2657	0.0594
Mercury	46861-04-22 14:38 G	18836800.95	18836801.11	18836801.27	0.2679	0.0083
Mercury	46864-10-21 12:58 G	18838078.94	18838079.04	18838079.14	0.2662	0.0639

Mercury	46877-10-24 06:29 G	18842829.70	18842829.77	18842829.85	0.2662	0.1882
Mercury	46884-10-17 07:26 G	18845379.72	18845379.81	18845379.90	0.2655	0.1521
Mercury	46894-04-20 11:02 G	18848851.92	18848851.96	18848852.01	0.2680	0.2553
Mercury	46897-10-20 00:29 G	18850130.41	18850130.52	18850130.63	0.2660	0.0408
Mercury	46907-04-24 21:50 G	18853603.25	18853603.41	18853603.57	0.2677	0.0545
Mercury	46910-10-23 17:46 G	18854881.14	18854881.24	18854881.34	0.2662	0.0879
Mercury	46917-10-16 19:26 G	18857431.27	18857431.31	18857431.34	0.2654	0.2469
Venus	46920-07-16 23:46 G	18858435.34	18858435.49	18858435.64	0.2682	0.1161
Mercury	46923-10-26 11:17 G	18859631.91	18859631.97	18859632.03	0.2662	0.2173
Mercury	46930-10-19 12:14 G	18862181.92	18862182.01	18862182.10	0.2655	0.1399
Mercury	46940-04-21 18:14 G	18865654.17	18865654.26	18865654.36	0.2680	0.2140
Mercury	46943-10-22 05:17 G	18866932.61	18866932.72	18866932.82	0.2661	0.0100
Mercury	46953-04-25 05:02 G	18870405.56	18870405.71	18870405.85	0.2676	0.1173
Mercury	46956-10-23 22:34 G	18871683.35	18871683.44	18871683.54	0.2662	0.1103
Mercury	46963-10-18 00:00 G	18874233.45	18874233.50	18874233.55	0.2653	0.2327
Mercury	46969-10-26 16:05 G	18876434.13	18876434.17	18876434.22	0.2662	0.2405
Mercury	46976-10-19 16:48 G	18878984.10	18878984.20	18878984.30	0.2657	0.1050
Mercury	46986-04-23 01:26 G	18882456.42	18882456.56	18882456.70	0.2679	0.1376
Mercury	46989-10-22 10:05 G	18883734.81	18883734.92	18883735.02	0.2661	0.0109
Mercury	46999-04-26 12:00 G	18887207.88	18887208.00	18887208.13	0.2676	0.1633

48TH MILLENNIUM CE

This is a list of transits visible from Moon in the 48th millennium CE.

PLANET	MAX- TRANSIT	C	START	MAX	END	SUNRAD	DEPTH	S
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TIME

Mercury	47002-10-26 03:36 G	18888485.56	18888485.65	18888485.74	0.2663	0.1431
Mercury	47009-10-19 04:48 G	18891035.63	18891035.70	18891035.76	0.2653	0.2029
Mercury	47015-10-28 20:53 G	18893236.36	18893236.37	18893236.39	0.2661	0.2622
Mercury	47022-10-21 21:36 G	18895786.30	18895786.40	18895786.50	0.2658	0.0916
Mercury	47032-04-24 08:53 G	18899258.72	18899258.87	18899259.02	0.2677	0.0986
Venus	47034-01-17 12:14 G	18899891.85	18899892.01	18899892.16	0.2642	0.0724
Mercury	47035-10-24 14:53 G	18900537.01	18900537.12	18900537.22	0.2661	0.0428
Venus	47042-01-15 05:31 G	18902811.65	18902811.73	18902811.81	0.2646	0.2229
Mercury	47045-04-27 18:58 G	18904010.21	18904010.29	18904010.37	0.2676	0.2323
Mercury	47048-10-26 08:24 G	18905287.76	18905287.85	18905287.93	0.2663	0.1584
Mercury	47055-10-20 09:22 G	18907837.81	18907837.89	18907837.97	0.2654	0.1836
Mercury	47068-10-22 02:10 G	18912588.49	18912588.59	18912588.70	0.2659	0.0618
Mercury	47078-04-25 16:05 G	18916061.01	18916061.17	18916061.33	0.2677	0.0192
Mercury	47081-10-24 19:41 G	18917339.21	18917339.32	18917339.42	0.2662	0.0560
Mercury	47094-10-27 13:12 G	18922089.97	18922090.05	18922090.12	0.2663	0.1938
Mercury	47101-10-21 13:55 G	18924640.00	18924640.08	18924640.17	0.2656	0.1616
Mercury	47114-10-24 06:58 G	18929390.69	18929390.79	18929390.90	0.2659	0.0429
Mercury	47124-04-26 23:17 G	18932863.30	18932863.47	18932863.63	0.2677	0.0177
Mercury	47127-10-27 00:29 G	18934141.42	18934141.52	18934141.62	0.2663	0.0898
Mercury	47134-10-20 01:55 G	18936691.56	18936691.58	18936691.60	0.2653	0.2580
Mercury	47140-10-28 18:00 G	18938892.18	18938892.25	18938892.31	0.2662	0.2068
Mercury	47147-10-22 18:43 G	18941442.19	18941442.28	18941442.37	0.2657	0.1338
Mercury	47157-04-24 19:55 G	18944914.25	18944914.33	18944914.41	0.2678	0.2289
Mercury	47160-10-24 11:46 G	18946192.88	18946192.99	18946193.10	0.2659	0.0158
Venus	47163-07-20 01:12 G	18947191.40	18947191.55	18947191.70	0.2697	0.0638
Mercury	47170-04-28 06:00 G	18949665.60	18949665.75	18949665.91	0.2677	0.0899
Venus	47171-07-17 19:12 G	18950111.23	18950111.30	18950111.36	0.2695	0.2446
Mercury	47173-10-27 05:17 G	18950943.62	18950943.72	18950943.82	0.2663	0.1082
Mercury	47180-10-20 06:29 G	18953493.72	18953493.77	18953493.83	0.2654	0.2255

Mercury	47186-10-29 22:48 G	18955694.41	18955694.45	18955694.49	0.2661	0.2414
Mercury	47193-10-22 23:17 G	18958244.38	18958244.47	18958244.57	0.2657	0.1194
Mercury	47203-04-26 03:07 G	18961716.51	18961716.63	18961716.75	0.2678	0.1767
Mercury	47206-10-25 16:34 G	18962995.09	18962995.19	18962995.30	0.2661	0.0127
Mercury	47216-04-28 13:12 G	18966467.91	18966468.05	18966468.19	0.2675	0.1330
Mercury	47219-10-28 10:05 G	18967745.83	18967745.92	18967746.01	0.2663	0.1362
Mercury	47226-10-21 11:17 G	18970295.90	18970295.97	18970296.03	0.2655	0.2142
Mercury	47232-10-30 03:36 G	18972496.63	18972496.65	18972496.67	0.2661	0.2598
Mercury	47239-10-24 04:05 G	18975046.57	18975046.67	18975046.77	0.2657	0.0851
Mercury	47249-04-26 10:05 G	18978518.77	18978518.92	18978519.06	0.2678	0.1130
Mercury	47252-10-25 21:22 G	18979797.29	18979797.39	18979797.50	0.2663	0.0309
Mercury	47262-04-29 20:10 G	18983270.23	18983270.34	18983270.46	0.2674	0.1927
Mercury	47265-10-28 14:53 G	18984548.03	18984548.12	18984548.20	0.2663	0.1601
Mercury	47272-10-21 15:50 G	18987098.08	18987098.16	18987098.24	0.2655	0.1812
Venus	47277-01-19 00:14 G	18988648.39	18988648.51	18988648.64	0.2646	0.1524
Venus	47285-01-16 17:31 G	18991568.11	18991568.23	18991568.36	0.2641	0.1612
Mercury	47285-10-24 08:53 G	18991848.77	18991848.87	18991848.98	0.2658	0.0718
Mercury	47295-04-27 17:02 G	18995321.06	18995321.21	18995321.37	0.2677	0.0705
Mercury	47298-10-27 02:10 G	18996599.49	18996599.59	18996599.69	0.2663	0.0629
Mercury	47308-05-01 03:22 G	19000072.59	19000072.64	19000072.69	0.2673	0.2515
Mercury	47311-10-30 19:41 G	19001350.25	19001350.32	19001350.40	0.2663	0.1826
Mercury	47318-10-23 20:38 G	19003900.27	19003900.36	19003900.44	0.2655	0.1677
Mercury	47331-10-26 13:41 G	19008650.96	19008651.07	19008651.18	0.2660	0.0363
Mercury	47341-04-29 00:14 G	19012123.35	19012123.51	19012123.68	0.2675	0.0071
Mercury	47344-10-28 06:58 G	19013401.69	19013401.79	19013401.89	0.2663	0.0768
Mercury	47351-10-22 08:24 G	19015951.83	19015951.85	19015951.87	0.2654	0.2565
Mercury	47357-10-31 00:43 G	19018152.46	19018152.53	19018152.59	0.2662	0.2156
Mercury	47364-10-24 01:12 G	19020702.46	19020702.55	19020702.65	0.2656	0.1365
Mercury	47374-04-26 21:07 G	19024174.32	19024174.38	19024174.43	0.2678	0.2505
Mercury	47377-10-26 18:29 G	19025453.16	19025453.27	19025453.37	0.2661	0.0237

Mercury	47387-04-30 07:41 G	19028925.65	19028925.82	19028925.98	0.2674	0.0414
Mercury	47390-10-29 11:46 G	19030203.90	19030203.99	19030204.09	0.2663	0.1129
Mercury	47397-10-22 12:58 G	19032754.00	19032754.04	19032754.09	0.2654	0.2375
Mercury	47403-11-02 05:31 G	19034954.67	19034954.73	19034954.78	0.2662	0.2297
Venus	47406-07-22 02:53 G	19035947.48	19035947.62	19035947.77	0.2683	0.1336
Mercury	47410-10-26 06:00 G	19037504.65	19037504.75	19037504.85	0.2657	0.1172
Mercury	47420-04-28 04:19 G	19040976.58	19040976.68	19040976.78	0.2677	0.2097
Mercury	47423-10-28 23:02 G	19042255.36	19042255.46	19042255.57	0.2662	0.0131
Mercury	47433-05-01 14:38 G	19045727.96	19045728.11	19045728.25	0.2675	0.1203
Mercury	47436-10-30 16:48 G	19047006.10	19047006.20	19047006.29	0.2663	0.1286
Mercury	47443-10-24 17:46 G	19049556.18	19049556.24	19049556.31	0.2654	0.2076
Mercury	47449-11-02 10:05 G	19051756.92	19051756.92	19051756.93	0.2662	0.2643
Mercury	47456-10-26 10:48 G	19054306.85	19054306.95	19054307.05	0.2659	0.0950
Mercury	47466-04-29 11:31 G	19057778.85	19057778.98	19057779.12	0.2676	0.1419
Mercury	47469-10-29 03:50 G	19059057.56	19059057.66	19059057.77	0.2662	0.0283
Mercury	47479-05-02 21:36 G	19062530.26	19062530.40	19062530.53	0.2674	0.1519
Mercury	47482-10-31 21:36 G	19063808.31	19063808.40	19063808.48	0.2664	0.1621
Mercury	47489-10-24 22:34 G	19066358.37	19066358.44	19066358.51	0.2655	0.1929
Mercury	47502-10-28 15:22 G	19071109.04	19071109.14	19071109.25	0.2660	0.0666
Mercury	47512-04-30 18:43 G	19074581.13	19074581.28	19074581.43	0.2676	0.0882
Mercury	47515-10-31 08:53 G	19075859.76	19075859.87	19075859.97	0.2662	0.0564
Venus	47520-01-22 19:26 G	19077404.18	19077404.31	19077404.45	0.2636	0.1441
Mercury	47525-05-04 04:19 G	19079332.60	19079332.68	19079332.77	0.2673	0.2246
Venus	47528-01-20 09:50 G	19080323.86	19080323.91	19080323.96	0.2641	0.2500
Mercury	47528-11-02 02:24 G	19080610.52	19080610.60	19080610.68	0.2664	0.1791
Mercury	47535-10-27 03:07 G	19083160.55	19083160.63	19083160.72	0.2657	0.1600
Mercury	47548-10-28 20:10 G	19087911.23	19087911.34	19087911.45	0.2660	0.0501
Mercury	47558-05-02 01:41 G	19091383.41	19091383.57	19091383.73	0.2676	0.0354
Mercury	47561-10-31 13:41 G	19092661.97	19092662.07	19092662.17	0.2664	0.0827
Mercury	47568-10-24 15:07 G	19095212.10	19095212.13	19095212.16	0.2654	0.2538

Mercury	47571-05-05 11:17 G	19096134.96	19096134.97	19096134.99	0.2672	0.2651
Mercury	47574-11-03 07:12 G	19097412.73	19097412.80	19097412.86	0.2663	0.2078
Mercury	47581-10-27 07:55 G	19099962.74	19099962.83	19099962.91	0.2658	0.1493
Mercury	47594-10-30 00:58 G	19104713.43	19104713.54	19104713.65	0.2660	0.0164
Mercury	47604-05-02 08:38 G	19108185.70	19108185.86	19108186.02	0.2675	0.0251
Mercury	47607-11-01 18:29 G	19109464.17	19109464.27	19109464.37	0.2664	0.1014
Mercury	47614-10-25 19:41 G	19112014.28	19112014.32	19112014.37	0.2654	0.2399
Mercury	47620-11-03 12:00 G	19114214.95	19114215.00	19114215.05	0.2662	0.2324
Mercury	47627-10-28 12:29 G	19116764.92	19116765.02	19116765.12	0.2658	0.1141
Mercury	47637-04-30 05:46 G	19120236.65	19120236.74	19120236.84	0.2677	0.2174
Mercury	47640-10-30 05:46 G	19121515.63	19121515.74	19121515.85	0.2662	0.0055
Venus	47649-07-22 22:05 G	19124703.27	19124703.42	19124703.57	0.2696	0.0116
Mercury	47650-05-03 15:36 G	19124987.99	19124988.15	19124988.31	0.2673	0.0670
Mercury	47653-11-01 23:17 G	19126266.38	19126266.47	19126266.56	0.2664	0.1337
Mercury	47660-10-26 00:14 G	19128816.45	19128816.51	19128816.57	0.2656	0.2140
Mercury	47666-11-04 16:48 G	19131017.17	19131017.20	19131017.23	0.2661	0.2532
Mercury	47673-10-28 17:17 G	19133567.12	19133567.22	19133567.32	0.2658	0.1010
Mercury	47683-05-01 12:43 G	19137038.92	19137039.03	19137039.15	0.2677	0.1865
Mercury	47686-10-31 10:34 G	19138317.84	19138317.94	19138318.05	0.2663	0.0350
Mercury	47696-05-03 22:34 G	19141790.31	19141790.44	19141790.58	0.2672	0.1418
Mercury	47699-11-03 04:05 G	19143068.58	19143068.67	19143068.76	0.2663	0.1490
Mercury	47706-10-28 05:02 G	19145618.63	19145618.71	19145618.78	0.2656	0.1920
Mercury	47719-10-30 22:05 G	19150369.31	19150369.42	19150369.52	0.2659	0.0691
Mercury	47729-05-02 19:55 G	19153841.18	19153841.33	19153841.48	0.2675	0.1096
Mercury	47732-11-01 15:22 G	19155120.04	19155120.14	19155120.25	0.2664	0.0473
Mercury	47742-05-06 05:46 G	19158592.62	19158592.74	19158592.87	0.2672	0.1743
Mercury	47745-11-04 08:53 G	19159870.80	19159870.87	19159870.95	0.2663	0.1853
Mercury	47752-10-28 09:36 G	19162420.82	19162420.90	19162420.98	0.2656	0.1713
Venus	47763-01-24 01:41 G	19166160.44	19166160.57	19166160.70	0.2648	0.1391
Mercury	47765-10-31 02:53 G	19167171.51	19167171.62	19167171.72	0.2661	0.0490

Venus	47771-01-21 21:36 G	19169080.26	19169080.40	19169080.54	0.2645	0.1104
Mercury	47775-05-04 02:53 G	19170643.46	19170643.62	19170643.78	0.2674	0.0706
Mercury	47778-11-02 20:10 G	19171922.24	19171922.34	19171922.44	0.2663	0.0805
Mercury	47788-05-06 12:43 G	19175394.98	19175395.03	19175395.08	0.2672	0.2518
Mercury	47791-11-05 13:55 G	19176673.01	19176673.08	19176673.15	0.2663	0.1996
Mercury	47798-10-29 14:24 G	19179223.01	19179223.10	19179223.19	0.2657	0.1423
Mercury	47811-11-02 07:41 G	19183973.71	19183973.82	19183973.92	0.2662	0.0270
Mercury	47821-05-05 10:05 G	19187445.76	19187445.92	19187446.08	0.2673	0.0039
Mercury	47824-11-04 00:58 G	19188724.44	19188724.54	19188724.64	0.2663	0.0992
Mercury	47831-10-29 02:10 G	19191274.54	19191274.59	19191274.64	0.2655	0.2349
Mercury	47837-11-06 18:29 G	19193475.22	19193475.27	19193475.32	0.2663	0.2330
Mercury	47844-10-30 19:12 G	19196025.20	19196025.30	19196025.39	0.2658	0.1270
Mercury	47854-05-03 06:58 G	19199496.78	19199496.79	19199496.81	0.2675	0.2651
Mercury	47857-11-02 12:14 G	19200775.91	19200776.01	19200776.12	0.2662	0.0102
Mercury	47867-05-06 17:02 G	19204248.05	19204248.21	19204248.37	0.2673	0.0456
Mercury	47870-11-05 06:00 G	19205526.65	19205526.75	19205526.84	0.2664	0.1272
Mercury	47877-10-29 06:58 G	19208076.73	19208076.79	19208076.84	0.2655	0.2234
Mercury	47883-11-07 23:17 G	19210277.44	19210277.47	19210277.51	0.2662	0.2488
Mercury	47890-10-31 23:46 G	19212827.39	19212827.49	19212827.59	0.2660	0.0933
Venus	47892-07-25 05:17 G	19213459.57	19213459.72	19213459.88	0.2686	0.0909
Mercury	47900-05-04 14:10 G	19216298.98	19216299.09	19216299.20	0.2674	0.1929
Mercury	47903-11-04 17:02 G	19217578.11	19217578.21	19217578.32	0.2662	0.0220
Mercury	47913-05-08 00:00 G	19221050.35	19221050.50	19221050.65	0.2673	0.0999
Mercury	47916-11-06 10:48 G	19222328.86	19222328.95	19222329.03	0.2664	0.1542
Mercury	47923-10-31 11:31 G	19224878.91	19224878.98	19224879.06	0.2656	0.1894
Mercury	47936-11-02 04:34 G	19229629.59	19229629.69	19229629.79	0.2661	0.0819
Mercury	47946-05-05 21:22 G	19233101.26	19233101.39	19233101.52	0.2674	0.1580
Mercury	47949-11-04 22:05 G	19234380.31	19234380.42	19234380.52	0.2663	0.0552
Mercury	47959-05-09 06:43 G	19237852.65	19237852.78	19237852.91	0.2672	0.1569
Mercury	47962-11-07 15:36 G	19239131.07	19239131.15	19239131.23	0.2664	0.1727

Mercury	47969-10-31 16:19 G	19241681.10	19241681.18	19241681.26	0.2657	0.1751
Mercury	47982-11-03 09:22 G	19246431.78	19246431.89	19246431.99	0.2661	0.0460
Mercury	47992-05-06 04:19 G	19249903.53	19249903.68	19249903.84	0.2674	0.0803
Mercury	47995-11-06 02:53 G	19251182.52	19251182.62	19251182.72	0.2664	0.0690

49TH MILLENNIUM CE

This is a list of transits visible from Moon in the 49th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	48002-10-30 04:05 G		19253732.67	19253732.67	19253732.67	0.2654	0.2649	
Mercury	48005-05-09 13:41 G		19254654.96	19254655.07	19254655.18	0.2670	0.1964	
Venus	48006-01-26 04:34 G		19254916.56	19254916.69	19254916.82	0.2635	0.1702	
Mercury	48008-11-07 20:24 G		19255933.28	19255933.35	19255933.41	0.2663	0.2045	
Venus	48014-01-23 16:48 G		19257836.13	19257836.20	19257836.28	0.2636	0.2329	
Mercury	48015-11-01 20:53 G		19258483.28	19258483.37	19258483.46	0.2659	0.1483	
Mercury	48028-11-03 14:10 G		19263233.98	19263234.09	19263234.20	0.2661	0.0324	
Mercury	48038-05-07 11:17 G		19266705.81	19266705.97	19266706.13	0.2673	0.0499	
Mercury	48041-11-06 07:41 G		19267984.72	19267984.82	19267984.92	0.2665	0.1049	
Mercury	48048-10-30 08:53 G		19270534.83	19270534.87	19270534.90	0.2655	0.2458	
Mercury	48054-11-09 01:12 G		19272735.49	19272735.55	19272735.61	0.2662	0.2199	
Mercury	48061-11-02 01:41 G		19275285.47	19275285.57	19275285.66	0.2659	0.1263	
Mercury	48074-11-04 18:58 G		19280036.18	19280036.29	19280036.40	0.2663	0.0033	
Mercury	48084-05-07 18:14 G		19283508.09	19283508.26	19283508.42	0.2672	0.0244	
Mercury	48087-11-07 12:29 G		19284786.92	19284787.02	19284787.11	0.2665	0.1177	

Mercury	48094-10-31 13:26 G	19287337.00	19287337.06	19287337.12	0.2657	0.2170
Mercury	48100-11-10 06:00 G	19289537.73	19289537.75	19289537.78	0.2662	0.2558
Mercury	48107-11-04 06:29 G	19292087.67	19292087.77	19292087.86	0.2659	0.1044
Mercury	48117-05-06 15:36 G	19295559.07	19295559.15	19295559.23	0.2675	0.2292
Mercury	48120-11-05 23:46 G	19296838.38	19296838.49	19296838.60	0.2664	0.0212
Mercury	48130-05-10 01:12 G	19300310.39	19300310.55	19300310.71	0.2670	0.0609
Mercury	48133-11-08 17:17 G	19301589.13	19301589.22	19301589.31	0.2664	0.1513
Venus	48135-07-27 19:26 G	19302215.15	19302215.31	19302215.46	0.2694	0.0043
Mercury	48140-11-01 18:00 G	19304139.19	19304139.25	19304139.32	0.2657	0.2046
Mercury	48153-11-04 11:02 G	19308889.86	19308889.96	19308890.07	0.2660	0.0761
Mercury	48163-05-07 22:34 G	19312361.32	19312361.44	19312361.57	0.2674	0.1751
Mercury	48166-11-07 04:34 G	19313640.58	19313640.69	19313640.79	0.2664	0.0451
Mercury	48176-05-10 08:10 G	19317112.69	19317112.84	19317112.98	0.2670	0.1281
Mercury	48179-11-09 22:05 G	19318391.34	19318391.42	19318391.50	0.2664	0.1718
Mercury	48186-11-02 22:48 G	19320941.37	19320941.45	19320941.53	0.2657	0.1695
Mercury	48199-11-05 15:50 G	19325692.06	19325692.16	19325692.27	0.2662	0.0600
Mercury	48209-05-09 05:31 G	19329163.59	19329163.73	19329163.88	0.2672	0.1294
Mercury	48212-11-08 09:22 G	19330442.79	19330442.89	19330442.99	0.2664	0.0721
Mercury	48222-05-12 15:07 G	19333915.00	19333915.13	19333915.25	0.2670	0.1729
Mercury	48225-11-11 03:07 G	19335193.56	19335193.63	19335193.70	0.2664	0.1979
Mercury	48232-11-04 03:36 G	19337743.56	19337743.65	19337743.73	0.2658	0.1581
Mercury	48245-11-06 20:38 G	19342494.25	19342494.36	19342494.47	0.2663	0.0248
Venus	48249-01-28 03:07 G	19343672.51	19343672.63	19343672.75	0.2647	0.1652
Mercury	48255-05-10 12:43 G	19345965.87	19345966.03	19345966.19	0.2671	0.0590
Venus	48257-01-26 00:00 G	19346592.36	19346592.50	19346592.63	0.2647	0.1281
Mercury	48258-11-09 14:10 G	19347244.99	19347245.09	19347245.19	0.2664	0.0918
Mercury	48265-11-02 15:07 G	19349795.10	19349795.13	19349795.17	0.2656	0.2504
Mercury	48268-05-12 21:36 G	19350717.32	19350717.40	19350717.49	0.2670	0.2261
Mercury	48271-11-12 07:55 G	19351995.77	19351995.83	19351995.88	0.2664	0.2240
Mercury	48278-11-05 08:10 G	19354545.75	19354545.84	19354545.94	0.2659	0.1242

Mercury	48291-11-08 01:26 G	19359296.45	19359296.56	19359296.67	0.2663	0.0132
Mercury	48301-05-11 19:41 G	19362768.15	19362768.32	19362768.48	0.2671	0.0248
Mercury	48304-11-10 19:12 G	19364047.20	19364047.30	19364047.39	0.2665	0.1264
Mercury	48311-11-04 19:55 G	19366597.27	19366597.33	19366597.39	0.2656	0.2228
Mercury	48317-11-13 12:29 G	19368797.98	19368798.02	19368798.07	0.2663	0.2426
Mercury	48324-11-06 12:58 G	19371347.94	19371348.04	19371348.14	0.2661	0.1089
Mercury	48334-05-09 17:17 G	19374819.21	19374819.22	19374819.23	0.2672	0.2664
Mercury	48337-11-09 06:14 G	19376098.65	19376098.76	19376098.87	0.2663	0.0232
Mercury	48347-05-13 02:24 G	19379570.44	19379570.60	19379570.77	0.2671	0.0502
Mercury	48350-11-12 00:00 G	19380849.41	19380849.50	19380849.59	0.2665	0.1396
Mercury	48357-11-05 00:43 G	19383399.46	19383399.53	19383399.60	0.2657	0.2012
Mercury	48370-11-07 17:46 G	19388150.13	19388150.24	19388150.34	0.2662	0.0810
Venus	48378-07-30 05:46 G	19390971.58	19390971.74	19390971.90	0.2692	0.0328
Mercury	48380-05-10 00:14 G	19391621.40	19391621.51	19391621.61	0.2672	0.1962
Mercury	48383-11-10 11:17 G	19392900.86	19392900.97	19392901.07	0.2664	0.0404
Mercury	48393-05-13 09:22 G	19396372.73	19396372.89	19396373.05	0.2670	0.0796
Mercury	48396-11-12 04:48 G	19397651.62	19397651.70	19397651.78	0.2665	0.1754
Mercury	48403-11-06 05:17 G	19400201.64	19400201.72	19400201.80	0.2658	0.1819
Mercury	48416-11-07 22:19 G	19404952.33	19404952.43	19404952.54	0.2662	0.0603
Mercury	48426-05-11 07:12 G	19408423.67	19408423.80	19408423.93	0.2672	0.1565
Mercury	48429-11-10 16:05 G	19409703.06	19409703.17	19409703.27	0.2665	0.0708
Mercury	48439-05-14 16:05 G	19413175.03	19413175.17	19413175.30	0.2668	0.1506
Mercury	48442-11-13 09:36 G	19414453.82	19414453.90	19414453.97	0.2664	0.1887
Mercury	48449-11-06 09:50 G	19417003.83	19417003.91	19417004.00	0.2660	0.1519
Mercury	48462-11-09 03:22 G	19421754.53	19421754.64	19421754.74	0.2662	0.0366
Mercury	48472-05-11 13:55 G	19425225.93	19425226.08	19425226.23	0.2672	0.0960
Mercury	48475-11-11 20:53 G	19426505.27	19426505.37	19426505.47	0.2666	0.0915
Mercury	48482-11-04 21:50 G	19429055.37	19429055.41	19429055.45	0.2656	0.2444
Mercury	48485-05-14 23:02 G	19429977.34	19429977.46	19429977.58	0.2668	0.1862
Mercury	48488-11-13 14:24 G	19431256.04	19431256.10	19431256.16	0.2663	0.2215

Venus	48492-01-30 12:29 G	19432428.91	19432429.02	19432429.14	0.2636	0.1858
Mercury	48495-11-07 14:38 G	19433806.02	19433806.11	19433806.20	0.2660	0.1387
Venus	48500-01-28 00:58 G	19435348.41	19435348.54	19435348.68	0.2634	0.1486
Mercury	48508-11-10 08:10 G	19438556.73	19438556.84	19438556.95	0.2664	0.0078
Mercury	48518-05-13 20:53 G	19442028.20	19442028.37	19442028.53	0.2670	0.0444
Mercury	48521-11-13 01:41 G	19443307.47	19443307.57	19443307.66	0.2665	0.1162
Mercury	48528-11-06 02:24 G	19445857.55	19445857.60	19445857.65	0.2657	0.2333
Mercury	48531-05-17 05:46 G	19446779.70	19446779.74	19446779.79	0.2668	0.2536
Mercury	48534-11-15 19:12 G	19448058.26	19448058.30	19448058.34	0.2662	0.2416
Mercury	48541-11-08 19:26 G	19450608.21	19450608.31	19450608.41	0.2660	0.1032
Mercury	48554-11-11 12:58 G	19455358.93	19455359.04	19455359.15	0.2665	0.0108
Mercury	48564-05-14 03:36 G	19458830.49	19458830.65	19458830.82	0.2669	0.0047
Mercury	48567-11-14 06:29 G	19460109.68	19460109.77	19460109.86	0.2665	0.1433
Mercury	48574-11-07 06:58 G	19462659.73	19462659.79	19462659.86	0.2658	0.2022
Mercury	48587-11-10 00:14 G	19467410.41	19467410.51	19467410.61	0.2661	0.0908
Mercury	48597-05-12 01:26 G	19470881.50	19470881.56	19470881.62	0.2672	0.2444
Mercury	48600-11-12 17:46 G	19472161.13	19472161.24	19472161.34	0.2665	0.0455
Mercury	48610-05-16 10:34 G	19475632.78	19475632.94	19475633.10	0.2669	0.0686
Mercury	48613-11-15 11:17 G	19476911.89	19476911.97	19476912.06	0.2664	0.1628
Mercury	48620-11-08 11:46 G	19479461.92	19479461.99	19479462.07	0.2658	0.1860
Venus	48621-07-31 18:43 G	19479727.12	19479727.28	19479727.44	0.2689	0.0322
Mercury	48633-11-11 05:02 G	19484212.61	19484212.71	19484212.82	0.2663	0.0564
Mercury	48643-05-14 08:24 G	19487683.72	19487683.85	19487683.97	0.2670	0.1695
Mercury	48646-11-13 22:34 G	19488963.33	19488963.44	19488963.54	0.2665	0.0581
Mercury	48656-05-16 17:31 G	19492435.08	19492435.23	19492435.38	0.2669	0.1038
Mercury	48659-11-16 16:19 G	19493714.10	19493714.18	19493714.25	0.2664	0.1971
Mercury	48666-11-09 16:34 G	19496264.10	19496264.19	19496264.28	0.2658	0.1571
Mercury	48679-11-12 09:50 G	19501014.80	19501014.91	19501015.02	0.2664	0.0407
Mercury	48689-05-14 15:36 G	19504486.00	19504486.15	19504486.29	0.2669	0.1363
Mercury	48692-11-14 03:22 G	19505765.54	19505765.64	19505765.74	0.2665	0.0935

Mercury	48699-11-08 04:19 G	19508315.66	19508315.68	19508315.70	0.2657	0.2590
Mercury	48702-05-19 00:14 G	19509237.38	19509237.51	19509237.63	0.2668	0.1731
Mercury	48705-11-17 20:53 G	19510516.31	19510516.37	19510516.44	0.2664	0.2092
Mercury	48712-11-10 21:22 G	19513066.30	19513066.39	19513066.48	0.2660	0.1351
Mercury	48725-11-13 14:38 G	19517817.00	19517817.11	19517817.22	0.2664	0.0114
Venus	48735-02-02 06:14 G	19521184.64	19521184.76	19521184.87	0.2644	0.1766
Mercury	48735-05-16 22:19 G	19521288.27	19521288.43	19521288.59	0.2670	0.0647
Mercury	48738-11-16 08:10 G	19522567.75	19522567.84	19522567.94	0.2665	0.1108
Venus	48743-01-31 02:10 G	19524104.48	19524104.59	19524104.70	0.2647	0.1759
Mercury	48745-11-09 08:53 G	19525117.82	19525117.87	19525117.93	0.2657	0.2267
Mercury	48748-05-19 06:58 G	19526039.68	19526039.79	19526039.89	0.2667	0.2020
Mercury	48751-11-19 01:41 G	19527318.53	19527318.57	19527318.61	0.2663	0.2443
Mercury	48758-11-12 02:10 G	19529868.49	19529868.59	19529868.68	0.2662	0.1159
Mercury	48771-11-14 19:26 G	19534619.20	19534619.31	19534619.42	0.2664	0.0108
Mercury	48781-05-17 05:17 G	19538090.55	19538090.72	19538090.88	0.2669	0.0284
Mercury	48784-11-16 13:12 G	19539369.96	19539370.05	19539370.14	0.2666	0.1416
Mercury	48791-11-10 13:41 G	19541920.01	19541920.07	19541920.13	0.2658	0.2136
Mercury	48797-11-19 06:43 G	19544120.75	19544120.78	19544120.80	0.2662	0.2581
Mercury	48804-11-12 06:43 G	19546670.68	19546670.78	19546670.88	0.2663	0.0847
Mercury	48814-05-15 03:07 G	19550141.58	19550141.63	19550141.67	0.2671	0.2542
Mercury	48817-11-15 00:14 G	19551421.41	19551421.51	19551421.62	0.2665	0.0350
Mercury	48827-05-18 11:46 G	19554892.83	19554892.99	19554893.16	0.2668	0.0295
Mercury	48830-11-17 18:00 G	19556172.16	19556172.25	19556172.33	0.2665	0.1611
Mercury	48837-11-10 18:29 G	19558722.19	19558722.27	19558722.35	0.2659	0.1801
Mercury	48850-11-13 11:31 G	19563472.88	19563472.98	19563473.09	0.2662	0.0704
Mercury	48860-05-15 10:05 G	19566943.82	19566943.92	19566944.01	0.2671	0.2149
Mercury	48863-11-16 05:02 G	19568223.61	19568223.71	19568223.82	0.2666	0.0661
Venus	48864-08-02 03:36 G	19568483.50	19568483.65	19568483.80	0.2696	0.0084
Mercury	48873-05-18 18:29 G	19571695.11	19571695.27	19571695.43	0.2667	0.0803
Mercury	48876-11-17 22:48 G	19572974.37	19572974.45	19572974.52	0.2665	0.1863

Mercury	48883-11-11 23:02 G	19575524.38	19575524.46	19575524.54	0.2661	0.1687
Mercury	48896-11-13 16:19 G	19580275.08	19580275.18	19580275.29	0.2663	0.0355
Mercury	48906-05-17 16:48 G	19583746.06	19583746.20	19583746.33	0.2670	0.1474
Mercury	48909-11-17 10:05 G	19585025.81	19585025.92	19585026.02	0.2666	0.0813
Mercury	48916-11-10 10:48 G	19587575.93	19587575.95	19587575.97	0.2657	0.2596
Mercury	48919-05-21 01:26 G	19588497.41	19588497.56	19588497.71	0.2667	0.1254
Mercury	48922-11-20 03:36 G	19589776.59	19589776.65	19589776.71	0.2663	0.2144
Mercury	48929-11-13 03:50 G	19592326.56	19592326.66	19592326.75	0.2661	0.1354
Mercury	48942-11-15 21:07 G	19597077.28	19597077.38	19597077.49	0.2665	0.0238
Mercury	48952-05-17 23:31 G	19600548.34	19600548.48	19600548.63	0.2668	0.1157
Mercury	48955-11-18 14:53 G	19601828.02	19601828.12	19601828.21	0.2666	0.1152
Mercury	48962-11-11 15:22 G	19604378.10	19604378.14	19604378.19	0.2658	0.2364
Mercury	48965-05-21 08:24 G	19605299.73	19605299.85	19605299.96	0.2667	0.1900
Mercury	48968-11-20 08:24 G	19606578.80	19606578.85	19606578.90	0.2662	0.2319
Mercury	48975-11-14 08:38 G	19609128.76	19609128.86	19609128.95	0.2661	0.1206
Venus	48978-02-03 18:58 G	19609941.22	19609941.29	19609941.36	0.2639	0.2371
Venus	48986-02-01 09:22 G	19612860.73	19612860.89	19612861.05	0.2635	0.0640
Mercury	48988-11-16 02:10 G	19613879.48	19613879.59	19613879.69	0.2666	0.0173
Mercury	48998-05-19 06:14 G	19617350.60	19617350.76	19617350.93	0.2667	0.0430

50TH MILLENNIUM CE

This is a list of transits visible from Moon in the 50th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
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Mercury	49001-11-19 19:41 G	19618630.23	19618630.32	19618630.41	0.2665	0.1290
Mercury	49008-11-12 20:10 G	19621180.27	19621180.34	19621180.40	0.2659	0.2108
Mercury	49011-05-23 15:07 G	19622102.04	19622102.13	19622102.21	0.2667	0.2250
Mercury	49014-11-22 13:12 G	19623381.05	19623381.05	19623381.06	0.2662	0.2651
Mercury	49021-11-15 13:26 G	19625930.95	19625931.06	19625931.16	0.2662	0.0911
Mercury	49034-11-18 06:58 G	19630681.68	19630681.79	19630681.89	0.2666	0.0304
Mercury	49044-05-20 13:26 G	19634152.89	19634153.06	19634153.22	0.2667	0.0131
Mercury	49047-11-21 00:29 G	19635432.44	19635432.52	19635432.61	0.2665	0.1645
Mercury	49054-11-14 00:58 G	19637982.46	19637982.54	19637982.61	0.2659	0.1938
Mercury	49067-11-16 18:14 G	19642733.15	19642733.26	19642733.36	0.2664	0.0673
Mercury	49077-05-18 11:17 G	19646203.90	19646203.97	19646204.04	0.2668	0.2375
Mercury	49080-11-18 11:46 G	19647483.88	19647483.99	19647484.09	0.2666	0.0601
Mercury	49090-05-21 20:10 G	19650955.18	19650955.34	19650955.50	0.2667	0.0595
Mercury	49093-11-21 05:31 G	19652234.65	19652234.73	19652234.80	0.2665	0.1806
Mercury	49100-11-15 05:31 G	19654784.65	19654784.73	19654784.82	0.2660	0.1618
Venus	49107-08-05 20:38 G	19657239.20	19657239.36	19657239.52	0.2686	0.0850
Mercury	49113-11-17 23:02 G	19659535.35	19659535.46	19659535.56	0.2665	0.0477
Mercury	49123-05-20 18:14 G	19663006.15	19663006.26	19663006.38	0.2668	0.1867
Mercury	49126-11-20 16:34 G	19664286.09	19664286.19	19664286.29	0.2666	0.0811
Mercury	49133-11-13 17:17 G	19666836.19	19666836.22	19666836.24	0.2658	0.2563
Mercury	49136-05-23 02:38 G	19667757.46	19667757.61	19667757.77	0.2667	0.0941
Mercury	49139-11-23 10:05 G	19669036.86	19669036.92	19669036.99	0.2665	0.2115
Mercury	49146-11-16 10:19 G	19671586.84	19671586.93	19671587.02	0.2661	0.1485
Mercury	49159-11-19 03:50 G	19676337.55	19676337.66	19676337.76	0.2665	0.0193
Mercury	49169-05-21 00:58 G	19679808.40	19679808.54	19679808.69	0.2668	0.1290
Mercury	49172-11-20 21:22 G	19681088.30	19681088.39	19681088.49	0.2666	0.1061
Mercury	49179-11-14 22:05 G	19683638.38	19683638.42	19683638.46	0.2658	0.2443
Mercury	49182-05-24 09:07 G	19684559.75	19684559.88	19684560.02	0.2666	0.1486
Mercury	49185-11-23 14:53 G	19685839.07	19685839.12	19685839.17	0.2664	0.2296
Mercury	49192-11-16 15:07 G	19688389.03	19688389.13	19688389.23	0.2663	0.1134

Mercury	49205-11-19 08:38 G	19693139.75	19693139.86	19693139.96	0.2665	0.0060
Mercury	49215-05-22 07:55 G	19696610.67	19696610.83	19696610.98	0.2668	0.0882
Mercury	49218-11-22 02:24 G	19697890.50	19697890.60	19697890.69	0.2666	0.1359
Venus	49221-02-05 11:17 G	19698696.84	19698696.97	19698697.09	0.2639	0.1584
Mercury	49225-11-15 02:38 G	19700440.55	19700440.61	19700440.68	0.2659	0.2119
Mercury	49228-05-24 16:05 G	19701362.06	19701362.17	19701362.28	0.2665	0.2000
Venus	49229-02-03 04:48 G	19701616.59	19701616.70	19701616.81	0.2644	0.1871
Mercury	49231-11-24 19:41 G	19702641.30	19702641.32	19702641.35	0.2662	0.2548
Mercury	49238-11-17 19:55 G	19705191.23	19705191.33	19705191.43	0.2664	0.1021
Mercury	49251-11-20 13:26 G	19709941.95	19709942.06	19709942.17	0.2666	0.0350
Mercury	49261-05-22 14:24 G	19713412.94	19713413.10	19713413.27	0.2667	0.0248
Mercury	49264-11-22 06:58 G	19714692.71	19714692.79	19714692.88	0.2666	0.1513
Mercury	49271-11-16 07:26 G	19717242.74	19717242.81	19717242.88	0.2660	0.1952
Mercury	49274-05-25 23:02 G	19718164.40	19718164.46	19718164.52	0.2666	0.2471
Mercury	49284-11-18 00:43 G	19721993.42	19721993.53	19721993.63	0.2663	0.0676
Mercury	49294-05-20 12:58 G	19725463.99	19725464.04	19725464.09	0.2669	0.2525
Mercury	49297-11-20 18:14 G	19726744.16	19726744.26	19726744.37	0.2667	0.0497
Mercury	49307-05-24 21:22 G	19730215.22	19730215.39	19730215.55	0.2665	0.0083
Mercury	49310-11-24 12:00 G	19731494.92	19731495.00	19731495.07	0.2665	0.1850
Mercury	49317-11-17 12:00 G	19734044.92	19734045.00	19734045.09	0.2662	0.1716
Mercury	49330-11-20 05:31 G	19738795.62	19738795.73	19738795.83	0.2664	0.0518
Mercury	49340-05-21 19:41 G	19742266.23	19742266.32	19742266.41	0.2668	0.2217
Venus	49342-08-09 06:14 G	19743075.73	19743075.76	19743075.79	0.2698	0.2640
Mercury	49343-11-22 23:02 G	19743546.36	19743546.46	19743546.56	0.2667	0.0841
Venus	49350-08-07 00:14 G	19745995.36	19745995.51	19745995.66	0.2699	0.0173
Mercury	49353-05-25 04:05 G	19747017.51	19747017.67	19747017.82	0.2665	0.0794
Mercury	49356-11-24 16:48 G	19748297.13	19748297.20	19748297.27	0.2664	0.1988
Mercury	49363-11-18 16:48 G	19750847.11	19750847.20	19750847.29	0.2662	0.1457
Mercury	49376-11-20 10:19 G	19755597.82	19755597.93	19755598.04	0.2666	0.0221
Mercury	49386-05-23 02:24 G	19759068.47	19759068.60	19759068.73	0.2666	0.1588

Mercury	49389-11-23 03:50 G	19760348.56	19760348.66	19760348.76	0.2667	0.0984
Mercury	49396-11-16 04:34 G	19762898.64	19762898.69	19762898.73	0.2660	0.2380
Mercury	49399-05-26 10:48 G	19763819.80	19763819.95	19763820.11	0.2665	0.1099
Mercury	49402-11-26 21:36 G	19765099.35	19765099.40	19765099.45	0.2663	0.2338
Mercury	49409-11-19 21:36 G	19767649.31	19767649.40	19767649.50	0.2662	0.1264
Mercury	49422-11-22 15:07 G	19772400.03	19772400.13	19772400.24	0.2667	0.0079
Mercury	49432-05-24 09:07 G	19775870.73	19775870.88	19775871.03	0.2665	0.1143
Mercury	49435-11-25 08:53 G	19777150.77	19777150.87	19777150.96	0.2666	0.1298
Mercury	49442-11-18 09:07 G	19779700.83	19779700.88	19779700.94	0.2660	0.2270
Mercury	49445-05-27 17:31 G	19780622.11	19780622.23	19780622.35	0.2666	0.1766
Mercury	49448-11-27 02:24 G	19781901.57	19781901.60	19781901.64	0.2663	0.2473
Mercury	49455-11-21 02:24 G	19784451.50	19784451.60	19784451.70	0.2663	0.0949
Mercury	49468-11-22 19:55 G	19789202.22	19789202.33	19789202.44	0.2667	0.0233
Venus	49472-02-06 16:48 G	19790373.04	19790373.20	19790373.36	0.2639	0.0441
Mercury	49478-05-25 16:05 G	19792673.01	19792673.17	19792673.33	0.2665	0.0620
Mercury	49481-11-25 13:41 G	19793952.98	19793953.07	19793953.16	0.2665	0.1527
Mercury	49488-11-18 13:55 G	19796503.01	19796503.08	19796503.15	0.2660	0.1912
Mercury	49491-05-29 00:00 G	19797424.40	19797424.50	19797424.60	0.2666	0.2111
Mercury	49501-11-22 07:12 G	19801253.70	19801253.80	19801253.91	0.2665	0.0812
Mercury	49514-11-25 00:43 G	19806004.43	19806004.53	19806004.64	0.2667	0.0532
Mercury	49524-05-26 22:48 G	19809475.28	19809475.45	19809475.61	0.2666	0.0095
Mercury	49527-11-27 18:29 G	19810755.19	19810755.27	19810755.35	0.2665	0.1754
Mercury	49534-11-20 18:43 G	19813305.20	19813305.28	19813305.36	0.2661	0.1792
Mercury	49537-05-30 06:29 G	19814226.77	19814226.77	19814226.78	0.2665	0.2661
Mercury	49547-11-23 12:00 G	19818055.90	19818056.00	19818056.11	0.2666	0.0453
Mercury	49557-05-24 21:22 G	19821526.31	19821526.39	19821526.47	0.2666	0.2287
Mercury	49560-11-25 05:46 G	19822806.63	19822806.74	19822806.84	0.2666	0.0703
Mercury	49570-05-28 05:17 G	19826277.56	19826277.72	19826277.89	0.2665	0.0313
Mercury	49573-11-27 23:17 G	19827557.41	19827557.47	19827557.54	0.2665	0.2038
Mercury	49580-11-20 23:31 G	19830107.39	19830107.48	19830107.57	0.2662	0.1472

Venus	49593-08-08 23:17 G	19834751.31	19834751.47	19834751.62	0.2685	0.1090
Mercury	49593-11-23 16:48 G	19834858.09	19834858.20	19834858.31	0.2666	0.0337
Mercury	49603-05-26 04:05 G	19838328.57	19838328.67	19838328.78	0.2666	0.2009
Mercury	49606-11-26 10:34 G	19839608.84	19839608.94	19839609.04	0.2667	0.1057
Mercury	49613-11-19 11:02 G	19842158.92	19842158.96	19842159.00	0.2659	0.2472
Mercury	49616-05-28 12:00 G	19843079.84	19843080.00	19843080.15	0.2665	0.0950
Mercury	49619-11-29 04:05 G	19844359.61	19844359.67	19844359.73	0.2664	0.2194
Mercury	49626-11-22 04:05 G	19846909.58	19846909.67	19846909.77	0.2664	0.1292
Mercury	49639-11-24 21:36 G	19851660.29	19851660.40	19851660.51	0.2666	0.0034
Mercury	49649-05-26 10:48 G	19855130.80	19855130.95	19855131.09	0.2666	0.1305
Mercury	49652-11-26 15:22 G	19856411.05	19856411.14	19856411.24	0.2667	0.1187
Mercury	49659-11-20 15:36 G	19858961.10	19858961.15	19858961.21	0.2660	0.2218
Mercury	49662-05-29 18:43 G	19859882.13	19859882.28	19859882.43	0.2664	0.1242
Mercury	49665-11-29 08:53 G	19861161.84	19861161.87	19861161.90	0.2662	0.2530
Mercury	49672-11-22 08:53 G	19863711.77	19863711.87	19863711.97	0.2665	0.1038
Mercury	49685-11-25 02:38 G	19868462.50	19868462.61	19868462.71	0.2667	0.0199
Mercury	49695-05-27 17:17 G	19871933.07	19871933.22	19871933.37	0.2665	0.1008
Mercury	49698-11-27 20:10 G	19873213.26	19873213.34	19873213.43	0.2667	0.1532
Mercury	49705-11-21 20:24 G	19875763.28	19875763.35	19875763.42	0.2662	0.2053
Venus	49707-02-10 18:58 G	19876209.17	19876209.29	19876209.41	0.2634	0.1771
Mercury	49708-05-31 01:26 G	19876684.45	19876684.56	19876684.67	0.2665	0.1974
Mercury	49711-12-01 13:41 G	19877964.07	19877964.07	19877964.08	0.2661	0.2654
Venus	49715-02-08 09:07 G	19879128.74	19879128.88	19879129.02	0.2639	0.1300
Mercury	49718-11-24 13:41 G	19880513.97	19880514.07	19880514.17	0.2664	0.0792
Mercury	49731-11-27 07:26 G	19885264.71	19885264.81	19885264.92	0.2667	0.0479
Mercury	49741-05-29 00:00 G	19888735.33	19888735.50	19888735.66	0.2664	0.0400
Mercury	49744-11-29 00:58 G	19890015.46	19890015.54	19890015.63	0.2666	0.1678
Mercury	49751-11-23 01:12 G	19892565.46	19892565.55	19892565.63	0.2663	0.1729
Mercury	49754-06-01 08:10 G	19893486.76	19893486.84	19893486.93	0.2665	0.2262
Mercury	49764-11-24 18:29 G	19897316.17	19897316.27	19897316.38	0.2665	0.0587

Mercury	49777-11-27 12:14 G	19902066.91	19902067.01	19902067.11	0.2668	0.0718
Mercury	49787-05-30 06:43 G	19905537.62	19905537.78	19905537.95	0.2664	0.0042
Mercury	49790-11-30 06:00 G	19906817.68	19906817.75	19906817.82	0.2664	0.1983
Mercury	49797-11-23 05:46 G	19909367.66	19909367.74	19909367.83	0.2663	0.1619
Mercury	49810-11-26 23:31 G	19914118.37	19914118.48	19914118.58	0.2666	0.0269
Mercury	49820-05-28 05:17 G	19917588.62	19917588.72	19917588.82	0.2665	0.2135
Mercury	49823-11-29 17:02 G	19918869.11	19918869.21	19918869.31	0.2667	0.0928
Venus	49828-08-13 03:22 G	19920587.59	19920587.64	19920587.70	0.2696	0.2475
Mercury	49830-11-22 17:31 G	19921419.20	19921419.23	19921419.25	0.2660	0.2557
Mercury	49833-05-31 13:26 G	19922339.90	19922340.06	19922340.23	0.2664	0.0569
Venus	49836-08-10 20:24 G	19923507.21	19923507.35	19923507.50	0.2699	0.0911
Mercury	49836-12-01 10:48 G	19923619.89	19923619.95	19923620.01	0.2664	0.2212
Mercury	49843-11-25 10:34 G	19926169.85	19926169.94	19926170.04	0.2663	0.1257
Mercury	49856-11-27 04:19 G	19930920.57	19930920.68	19930920.79	0.2667	0.0121
Mercury	49866-05-29 12:00 G	19934390.89	19934391.00	19934391.12	0.2664	0.1814
Mercury	49869-11-29 21:50 G	19935671.32	19935671.41	19935671.51	0.2667	0.1234
Mercury	49876-11-22 22:05 G	19938221.37	19938221.42	19938221.48	0.2661	0.2262
Mercury	49879-06-01 20:10 G	19939142.18	19939142.34	19939142.49	0.2665	0.1082
Mercury	49882-12-02 15:36 G	19940422.11	19940422.15	19940422.19	0.2663	0.2427
Mercury	49889-11-25 15:36 G	19942972.05	19942972.15	19942972.24	0.2664	0.1129
Mercury	49902-11-29 09:07 G	19947722.77	19947722.88	19947722.98	0.2668	0.0242
Mercury	49912-05-30 18:58 G	19951193.14	19951193.29	19951193.44	0.2664	0.1089
Mercury	49915-12-02 02:53 G	19952473.53	19952473.62	19952473.71	0.2666	0.1395
Mercury	49922-11-25 02:53 G	19955023.55	19955023.62	19955023.69	0.2661	0.2076
Mercury	49925-06-03 02:38 G	19955944.47	19955944.61	19955944.75	0.2665	0.1443
Mercury	49935-11-27 20:24 G	19959774.24	19959774.35	19959774.45	0.2666	0.0798
Mercury	49948-11-29 13:55 G	19964524.97	19964525.08	19964525.19	0.2667	0.0362
Venus	49958-02-10 21:22 G	19967885.24	19967885.39	19967885.54	0.2644	0.0679
Mercury	49958-06-01 01:41 G	19967995.41	19967995.57	19967995.73	0.2664	0.0817
Mercury	49961-12-02 07:41 G	19969275.74	19969275.82	19969275.90	0.2666	0.1749

Mercury	49968-11-25 07:41 G	19971825.74	19971825.82	19971825.90	0.2662	0.1821
Mercury	49971-06-04 09:07 G	19972746.79	19972746.88	19972746.98	0.2665	0.2113
Mercury	49981-11-28 01:12 G	19976576.44	19976576.55	19976576.65	0.2667	0.0621
Mercury	49994-11-30 18:43 G	19981327.18	19981327.28	19981327.39	0.2667	0.0711

51ST MILLENNIUM CE

This is a list of transits visible from Moon in the 51st millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	50004-06-01 08:10 G		19984797.67	19984797.84	19984798.00	0.2664	0.0160	
Mercury	50007-12-03 12:29 G		19986077.94	19986078.02	19986078.10	0.2666	0.1862	
Mercury	50014-11-26 12:29 G		19988627.93	19988628.02	19988628.11	0.2663	0.1563	
Mercury	50017-06-04 16:05 G		19989549.10	19989549.17	19989549.24	0.2665	0.2411	
Mercury	50027-11-29 06:00 G		19993378.64	19993378.75	19993378.85	0.2667	0.0366	
Mercury	50037-05-30 06:58 G		19996848.73	19996848.79	19996848.86	0.2665	0.2433	
Mercury	50040-11-30 23:46 G		19998129.39	19998129.49	19998129.59	0.2667	0.0895	
Mercury	50047-11-25 00:00 G		20000679.46	20000679.50	20000679.53	0.2660	0.2493	
Mercury	50050-06-02 14:38 G		20001599.94	20001600.11	20001600.27	0.2664	0.0153	
Mercury	50053-12-03 17:17 G		20002880.16	20002880.22	20002880.28	0.2665	0.2209	
Mercury	50060-11-26 17:17 G		20005430.13	20005430.22	20005430.31	0.2665	0.1396	
Mercury	50073-11-29 10:48 G		20010180.84	20010180.95	20010181.05	0.2667	0.0131	
Venus	50079-08-13 01:26 G		20012263.40	20012263.56	20012263.72	0.2687	0.0813	
Mercury	50083-05-31 13:41 G		20013650.96	20013651.07	20013651.18	0.2664	0.1988	
Mercury	50086-12-02 04:34 G		20014931.59	20014931.69	20014931.78	0.2668	0.1175	

Mercury	50093-11-25 04:48 G	20017481.65	20017481.70	20017481.74	0.2661	0.2381
Mercury	50096-06-02 21:22 G	20018402.23	20018402.39	20018402.55	0.2663	0.0775
Mercury	50099-12-04 22:05 G	20019682.37	20019682.42	20019682.47	0.2663	0.2355
Mercury	50106-11-28 22:05 G	20022232.32	20022232.42	20022232.51	0.2665	0.1069
Mercury	50119-12-01 15:36 G	20026983.04	20026983.15	20026983.26	0.2667	0.0127
Mercury	50129-06-01 20:10 G	20030453.21	20030453.34	20030453.47	0.2664	0.1569
Mercury	50132-12-03 09:22 G	20031733.80	20031733.89	20031733.98	0.2667	0.1400
Mercury	50139-11-27 09:22 G	20034283.82	20034283.89	20034283.96	0.2663	0.2045
Mercury	50142-06-05 04:05 G	20035204.53	20035204.67	20035204.82	0.2664	0.1197
Mercury	50145-12-06 02:53 G	20036484.62	20036484.62	20036484.63	0.2661	0.2648
Mercury	50152-11-29 02:38 G	20039034.51	20039034.61	20039034.72	0.2665	0.0948
Mercury	50165-12-01 20:38 G	20043785.25	20043785.36	20043785.46	0.2668	0.0452
Mercury	50175-06-03 02:53 G	20047255.46	20047255.62	20047255.77	0.2663	0.0963
Mercury	50178-12-04 14:10 G	20048536.01	20048536.09	20048536.18	0.2666	0.1619
Mercury	50185-11-27 14:10 G	20051086.01	20051086.09	20051086.16	0.2664	0.1914
Mercury	50188-06-05 10:48 G	20052006.82	20052006.95	20052007.07	0.2665	0.1704
Mercury	50198-11-30 07:41 G	20055836.71	20055836.82	20055836.92	0.2666	0.0591
Venus	50201-02-12 16:05 G	20056641.01	20056641.17	20056641.33	0.2634	0.0685
Mercury	50211-12-04 01:26 G	20060587.45	20060587.56	20060587.66	0.2668	0.0578
Mercury	50221-06-04 09:36 G	20064057.74	20064057.90	20064058.06	0.2663	0.0632
Mercury	50224-12-05 18:58 G	20065338.22	20065338.29	20065338.37	0.2665	0.1928
Mercury	50231-11-29 18:58 G	20067888.20	20067888.29	20067888.37	0.2664	0.1601
Mercury	50234-06-07 17:17 G	20068809.13	20068809.22	20068809.31	0.2665	0.2234
Mercury	50244-12-01 12:29 G	20072638.91	20072639.02	20072639.13	0.2667	0.0437
Mercury	50257-12-04 06:14 G	20077389.66	20077389.76	20077389.86	0.2668	0.0928
Mercury	50264-11-27 06:29 G	20079939.75	20079939.77	20079939.78	0.2662	0.2625
Mercury	50267-06-05 16:19 G	20080860.01	20080860.18	20080860.34	0.2663	0.0058
Mercury	50270-12-07 00:00 G	20082140.43	20082140.50	20082140.56	0.2664	0.2068
Mercury	50277-11-29 23:46 G	20084690.39	20084690.49	20084690.58	0.2664	0.1427
Mercury	50280-06-08 00:00 G	20085611.46	20085611.50	20085611.53	0.2666	0.2591

Mercury	50290-12-02 17:17 G	20089441.11	20089441.22	20089441.33	0.2668	0.0121
Mercury	50300-06-03 15:07 G	20092911.04	20092911.13	20092911.22	0.2663	0.2202
Mercury	50303-12-06 11:02 G	20094191.86	20094191.96	20094192.06	0.2667	0.1063
Mercury	50310-11-29 11:02 G	20096741.91	20096741.96	20096742.01	0.2662	0.2339
Mercury	50313-06-06 22:48 G	20097662.29	20097662.45	20097662.62	0.2664	0.0330
Venus	50314-08-18 02:24 G	20098099.51	20098099.60	20098099.69	0.2691	0.2252
Mercury	50316-12-08 04:34 G	20098942.65	20098942.69	20098942.74	0.2664	0.2418
Venus	50322-08-15 17:02 G	20101019.11	20101019.21	20101019.31	0.2696	0.1996
Mercury	50323-12-02 04:34 G	20101492.59	20101492.69	20101492.78	0.2665	0.1157
Mercury	50336-12-03 22:05 G	20106243.31	20106243.42	20106243.53	0.2669	0.0085
Mercury	50346-06-04 21:50 G	20109713.30	20109713.41	20109713.53	0.2663	0.1846
Mercury	50349-12-06 16:05 G	20110994.07	20110994.17	20110994.26	0.2667	0.1407
Mercury	50356-11-29 15:50 G	20113544.10	20113544.16	20113544.22	0.2662	0.2186
Mercury	50359-06-08 05:17 G	20114464.57	20114464.72	20114464.87	0.2664	0.0976
Mercury	50362-12-09 09:22 G	20115744.86	20115744.89	20115744.92	0.2663	0.2523
Mercury	50369-12-02 09:22 G	20118294.79	20118294.89	20118294.99	0.2667	0.0887
Mercury	50382-12-05 02:53 G	20123045.52	20123045.62	20123045.73	0.2668	0.0361
Mercury	50392-06-05 04:34 G	20126515.54	20126515.69	20126515.83	0.2663	0.1277
Mercury	50395-12-07 20:53 G	20127796.28	20127796.37	20127796.45	0.2666	0.1578
Mercury	50402-11-30 20:38 G	20130346.28	20130346.36	20130346.44	0.2663	0.1849
Mercury	50405-06-08 12:00 G	20131266.86	20131267.00	20131267.14	0.2664	0.1294
Mercury	50415-12-03 14:10 G	20135096.99	20135097.09	20135097.19	0.2668	0.0716
Mercury	50428-12-05 07:55 G	20139847.72	20139847.83	20139847.93	0.2668	0.0598
Venus	50436-02-17 03:07 G	20142477.56	20142477.63	20142477.71	0.2646	0.2268
Mercury	50438-06-06 11:02 G	20143317.80	20143317.96	20143318.11	0.2663	0.0844
Mercury	50441-12-08 01:41 G	20144598.49	20144598.57	20144598.64	0.2666	0.1860
Venus	50444-02-15 00:00 G	20145397.35	20145397.50	20145397.65	0.2646	0.0563
Mercury	50448-12-01 01:26 G	20147148.48	20147148.56	20147148.64	0.2664	0.1731
Mercury	50451-06-09 18:43 G	20148069.17	20148069.28	20148069.39	0.2664	0.1942
Mercury	50461-12-03 18:58 G	20151899.18	20151899.29	20151899.40	0.2668	0.0390

Mercury	50474-12-06 12:43 G	20156649.93	20156650.03	20156650.14	0.2668	0.0816
Mercury	50484-06-06 17:31 G	20160120.07	20160120.23	20160120.39	0.2663	0.0432
Mercury	50487-12-09 06:29 G	20161400.70	20161400.77	20161400.83	0.2665	0.2073
Mercury	50494-12-02 06:14 G	20163950.67	20163950.76	20163950.85	0.2666	0.1382
Mercury	50497-06-10 01:41 G	20164871.49	20164871.57	20164871.64	0.2665	0.2350
Mercury	50507-12-05 23:46 G	20168701.38	20168701.49	20168701.60	0.2668	0.0252
Mercury	50517-06-05 16:48 G	20172171.18	20172171.20	20172171.22	0.2663	0.2638
Mercury	50520-12-07 17:31 G	20173452.14	20173452.23	20173452.33	0.2668	0.1130
Mercury	50527-12-01 17:31 G	20176002.19	20176002.23	20176002.28	0.2662	0.2383
Mercury	50530-06-09 00:14 G	20176922.35	20176922.51	20176922.68	0.2662	0.0191
Mercury	50533-12-10 11:17 G	20178202.91	20178202.97	20178203.02	0.2663	0.2285
Mercury	50540-12-03 11:02 G	20180752.86	20180752.96	20180753.05	0.2666	0.1257
Mercury	50553-12-06 04:48 G	20185503.59	20185503.70	20185503.80	0.2668	0.0138
Venus	50557-08-19 12:00 G	20186855.97	20186856.00	20186856.03	0.2696	0.2612
Mercury	50563-06-06 23:17 G	20188973.36	20188973.47	20188973.57	0.2662	0.1995
Venus	50565-08-17 02:38 G	20189775.45	20189775.61	20189775.76	0.2691	0.0600
Mercury	50566-12-08 22:19 G	20190254.34	20190254.43	20190254.53	0.2668	0.1262
Mercury	50573-12-01 22:19 G	20192804.37	20192804.43	20192804.49	0.2664	0.2184
Mercury	50576-06-09 06:58 G	20193724.63	20193724.79	20193724.96	0.2663	0.0531
Mercury	50579-12-11 16:05 G	20195005.15	20195005.17	20195005.19	0.2662	0.2586
Mercury	50586-12-04 15:50 G	20197555.06	20197555.16	20197555.26	0.2666	0.0925
Mercury	50599-12-07 09:36 G	20202305.79	20202305.90	20202306.01	0.2669	0.0258
Mercury	50609-06-08 06:00 G	20205775.62	20205775.75	20205775.87	0.2662	0.1713
Mercury	50612-12-10 03:07 G	20207056.55	20207056.63	20207056.72	0.2667	0.1610
Mercury	50619-12-04 03:07 G	20209606.56	20209606.63	20209606.70	0.2665	0.1974
Mercury	50622-06-11 13:41 G	20210526.92	20210527.07	20210527.21	0.2664	0.1188
Mercury	50632-12-05 20:38 G	20214357.26	20214357.36	20214357.46	0.2667	0.0745
Mercury	50645-12-08 14:24 G	20219108.00	20219108.10	20219108.21	0.2669	0.0589
Mercury	50655-06-09 12:29 G	20222577.87	20222578.02	20222578.18	0.2662	0.1041
Mercury	50658-12-11 08:10 G	20223858.76	20223858.84	20223858.92	0.2665	0.1746

Mercury	50665-12-04 07:55 G	20226408.74	20226408.83	20226408.91	0.2665	0.1691
Mercury	50668-06-11 20:10 G	20227329.20	20227329.34	20227329.48	0.2665	0.1455
Mercury	50678-12-07 01:26 G	20231159.46	20231159.56	20231159.67	0.2668	0.0485
Venus	50687-02-17 00:43 G	20234153.37	20234153.53	20234153.70	0.2633	0.0467
Mercury	50691-12-09 19:12 G	20235910.20	20235910.30	20235910.40	0.2669	0.0751
Mercury	50698-12-02 19:12 G	20238460.29	20238460.30	20238460.32	0.2663	0.2632
Mercury	50701-06-10 19:12 G	20239380.15	20239380.30	20239380.46	0.2662	0.0708
Mercury	50704-12-12 12:58 G	20240660.98	20240661.04	20240661.11	0.2665	0.2083
Mercury	50711-12-06 12:43 G	20243210.94	20243211.03	20243211.12	0.2665	0.1523
Mercury	50714-06-14 02:38 G	20244131.51	20244131.61	20244131.71	0.2665	0.2131
Mercury	50724-12-08 06:29 G	20247961.66	20247961.77	20247961.87	0.2669	0.0221
Mercury	50737-12-11 00:00 G	20252712.41	20252712.50	20252712.60	0.2668	0.1045
Mercury	50744-12-04 00:00 G	20255262.47	20255262.50	20255262.53	0.2663	0.2526
Mercury	50747-06-12 01:41 G	20256182.40	20256182.57	20256182.73	0.2663	0.0174
Mercury	50750-12-13 17:46 G	20257463.19	20257463.24	20257463.30	0.2664	0.2234
Mercury	50757-12-06 17:31 G	20260013.13	20260013.23	20260013.33	0.2666	0.1187
Mercury	50760-06-14 09:36 G	20260933.84	20260933.90	20260933.96	0.2665	0.2450
Mercury	50770-12-09 11:17 G	20264763.86	20264763.97	20264764.07	0.2669	0.0093
Mercury	50780-06-09 01:12 G	20268233.48	20268233.55	20268233.62	0.2662	0.2400
Mercury	50783-12-12 05:02 G	20269514.62	20269514.71	20269514.80	0.2667	0.1299
Mercury	50790-12-05 04:48 G	20272064.64	20272064.70	20272064.76	0.2663	0.2171
Mercury	50793-06-12 08:10 G	20272984.67	20272984.84	20272985.00	0.2663	0.0290
Mercury	50796-12-13 22:34 G	20274265.41	20274265.44	20274265.47	0.2664	0.2520
Venus	50800-08-21 04:05 G	20275611.55	20275611.67	20275611.80	0.2687	0.1746
Mercury	50803-12-07 22:19 G	20276815.33	20276815.43	20276815.53	0.2668	0.1060
Venus	50808-08-18 15:22 G	20278531.10	20278531.14	20278531.18	0.2691	0.2582
Mercury	50816-12-09 16:05 G	20281566.06	20281566.17	20281566.27	0.2669	0.0300
Mercury	50826-06-10 07:41 G	20285035.70	20285035.82	20285035.94	0.2662	0.1798
Mercury	50829-12-12 09:50 G	20286316.83	20286316.91	20286317.00	0.2667	0.1493
Mercury	50836-12-05 09:36 G	20288866.83	20288866.90	20288866.97	0.2664	0.2042

Mercury	50839-06-13 14:53 G	20289786.96	20289787.12	20289787.28	0.2663	0.0720
Mercury	50849-12-08 03:07 G	20293617.53	20293617.63	20293617.74	0.2669	0.0702
Mercury	50862-12-10 20:53 G	20298368.27	20298368.37	20298368.48	0.2669	0.0456
Mercury	50872-06-10 14:10 G	20301837.95	20301838.09	20301838.22	0.2662	0.1522
Mercury	50875-12-13 14:38 G	20303119.03	20303119.11	20303119.19	0.2667	0.1799
Mercury	50882-12-06 14:24 G	20305669.02	20305669.10	20305669.18	0.2666	0.1734
Mercury	50885-06-13 21:36 G	20306589.26	20306589.40	20306589.55	0.2663	0.1333
Mercury	50895-12-09 07:55 G	20310419.73	20310419.83	20310419.94	0.2669	0.0581
Mercury	50908-12-12 01:55 G	20315170.48	20315170.58	20315170.68	0.2669	0.0810
Mercury	50918-06-12 20:24 G	20318640.20	20318640.35	20318640.51	0.2662	0.0869
Mercury	50921-12-14 19:26 G	20319921.24	20319921.31	20319921.39	0.2666	0.1934
Venus	50922-02-21 06:29 G	20319989.69	20319989.77	20319989.85	0.2643	0.2212
Mercury	50928-12-07 19:12 G	20322471.21	20322471.30	20322471.39	0.2667	0.1524
Venus	50930-02-19 02:24 G	20322909.45	20322909.60	20322909.75	0.2646	0.0187
Mercury	50931-06-16 04:34 G	20323391.56	20323391.69	20323391.81	0.2665	0.1673
Mercury	50941-12-10 12:43 G	20327221.93	20327222.03	20327222.14	0.2669	0.0260
Mercury	50954-12-13 06:43 G	20331972.68	20331972.78	20331972.88	0.2669	0.0941
Mercury	50961-12-06 06:29 G	20334522.73	20334522.77	20334522.81	0.2663	0.2462
Mercury	50964-06-13 03:22 G	20335442.48	20335442.64	20335442.80	0.2662	0.0584
Mercury	50967-12-16 00:14 G	20336723.46	20336723.51	20336723.57	0.2664	0.2278
Mercury	50974-12-09 00:00 G	20339273.40	20339273.50	20339273.59	0.2667	0.1304
Mercury	50977-06-16 11:02 G	20340193.88	20340193.96	20340194.03	0.2666	0.2335
Mercury	50987-12-11 17:46 G	20344024.13	20344024.24	20344024.35	0.2669	0.0047
Mercury	51000-12-14 11:31 G	20348774.89	20348774.98	20348775.08	0.2669	0.1276

52ND MILLENNIUM CE

This is a list of transits visible from Moon in the 52nd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	51007-12-08 11:17	G	20351324.92	20351324.97	20351325.02	0.2665	0.2328	
Mercury	51010-06-15 10:05	G	20352244.75	20352244.92	20352245.08	0.2662	0.0118	
Mercury	51013-12-17 05:17	G	20353525.67	20353525.72	20353525.76	0.2662	0.2400	
Mercury	51020-12-10 04:48	G	20356075.60	20356075.70	20356075.80	0.2667	0.1028	
Mercury	51023-06-18 17:46	G	20356996.21	20356996.24	20356996.27	0.2667	0.2612	
Mercury	51033-12-12 22:48	G	20360826.34	20360826.45	20360826.55	0.2670	0.0244	
Mercury	51043-06-13 08:53	G	20364295.78	20364295.87	20364295.97	0.2661	0.2197	
Venus	51043-08-24 07:55	G	20364367.77	20364367.83	20364367.90	0.2699	0.2387	
Mercury	51046-12-15 16:19	G	20365577.09	20365577.18	20365577.27	0.2667	0.1443	
Venus	51051-08-22 01:12	G	20367287.42	20367287.55	20367287.69	0.2696	0.1219	
Mercury	51053-12-08 16:05	G	20368127.10	20368127.17	20368127.24	0.2666	0.1982	
Mercury	51056-06-15 16:34	G	20369047.03	20369047.19	20369047.35	0.2663	0.0422	
Mercury	51066-12-11 09:36	G	20372877.80	20372877.90	20372878.01	0.2668	0.0846	
Mercury	51079-12-14 03:36	G	20377628.54	20377628.65	20377628.75	0.2670	0.0487	
Mercury	51089-06-13 15:36	G	20381098.03	20381098.15	20381098.28	0.2661	0.1668	
Mercury	51092-12-15 21:22	G	20382379.31	20382379.39	20382379.47	0.2666	0.1718	
Mercury	51099-12-09 20:53	G	20384929.29	20384929.37	20384929.44	0.2666	0.1874	
Mercury	51102-06-17 23:02	G	20385849.30	20385849.46	20385849.61	0.2665	0.0948	
Mercury	51112-12-12 14:38	G	20389680.00	20389680.11	20389680.21	0.2669	0.0505	
Mercury	51125-12-15 08:24	G	20394430.74	20394430.85	20394430.95	0.2669	0.0668	
Mercury	51135-06-15 22:34	G	20397900.29	20397900.44	20397900.58	0.2661	0.1273	
Mercury	51138-12-18 02:10	G	20399181.52	20399181.59	20399181.66	0.2665	0.1969	
Mercury	51145-12-11 01:41	G	20401731.48	20401731.57	20401731.66	0.2666	0.1515	
Mercury	51148-06-18 05:46	G	20402651.60	20402651.74	20402651.87	0.2665	0.1436	
Mercury	51158-12-13 19:26	G	20406482.20	20406482.31	20406482.42	0.2670	0.0374	

Mercury	51171-12-16 13:12 G	20411232.95	20411233.05	20411233.15	0.2669	0.0993
Venus	51173-02-21 09:36 G	20411665.73	20411665.90	20411666.07	0.2634	0.0172
Mercury	51178-12-09 12:58 G	20413783.01	20413783.04	20413783.07	0.2664	0.2545
Mercury	51181-06-16 04:48 G	20414702.54	20414702.70	20414702.86	0.2662	0.0684
Mercury	51184-12-18 06:58 G	20415983.73	20415983.79	20415983.85	0.2665	0.2151
Mercury	51191-12-12 06:29 G	20418533.68	20418533.77	20418533.86	0.2667	0.1373
Mercury	51194-06-19 12:29 G	20419453.91	20419454.02	20419454.14	0.2665	0.1899
Mercury	51204-12-14 00:14 G	20423284.40	20423284.51	20423284.62	0.2670	0.0019
Mercury	51217-12-16 18:14 G	20428035.16	20428035.26	20428035.35	0.2668	0.1141
Mercury	51224-12-09 17:46 G	20430585.19	20430585.24	20430585.29	0.2664	0.2323
Mercury	51227-06-17 11:17 G	20431504.81	20431504.97	20431505.13	0.2663	0.0419
Mercury	51230-12-19 11:46 G	20432785.95	20432785.99	20432786.03	0.2664	0.2447
Mercury	51237-12-12 11:17 G	20435335.87	20435335.97	20435336.07	0.2669	0.1066
Mercury	51240-06-19 19:26 G	20436256.25	20436256.31	20436256.36	0.2666	0.2490
Mercury	51250-12-15 05:02 G	20440086.61	20440086.71	20440086.82	0.2670	0.0136
Mercury	51260-06-14 10:48 G	20443555.90	20443555.95	20443556.00	0.2661	0.2517
Mercury	51263-12-17 23:02 G	20444837.37	20444837.46	20444837.55	0.2668	0.1495
Mercury	51270-12-10 22:34 G	20447387.37	20447387.44	20447387.51	0.2665	0.2097
Mercury	51273-06-17 18:00 G	20448307.08	20448307.25	20448307.41	0.2663	0.0278
Mercury	51276-12-19 16:19 G	20449588.16	20449588.18	20449588.21	0.2662	0.2578
Mercury	51283-12-13 16:19 G	20452138.07	20452138.18	20452138.28	0.2670	0.0859
Venus	51286-08-25 07:12 G	20453123.66	20453123.80	20453123.94	0.2685	0.1494
Venus	51294-08-22 16:05 G	20456043.09	20456043.17	20456043.25	0.2687	0.2348
Mercury	51296-12-15 10:05 G	20456888.81	20456888.92	20456889.02	0.2670	0.0453
Mercury	51306-06-16 17:17 G	20460358.11	20460358.22	20460358.33	0.2661	0.1945
Mercury	51309-12-19 03:50 G	20461639.57	20461639.66	20461639.74	0.2667	0.1607
Mercury	51316-12-12 03:22 G	20464189.56	20464189.64	20464189.72	0.2667	0.1808
Mercury	51319-06-20 00:43 G	20465109.37	20465109.53	20465109.69	0.2663	0.0558
Mercury	51329-12-14 21:07 G	20468940.27	20468940.38	20468940.48	0.2670	0.0625
Mercury	51342-12-17 14:53 G	20473691.02	20473691.12	20473691.23	0.2670	0.0665

Mercury	51352-06-16 23:46 G	20477160.36	20477160.49	20477160.62	0.2661	0.1563
Mercury	51355-12-20 08:38 G	20478441.78	20478441.86	20478441.93	0.2666	0.1942
Mercury	51362-12-13 08:10 G	20480991.76	20480991.84	20480991.93	0.2668	0.1669
Mercury	51365-06-20 07:26 G	20481911.67	20481911.81	20481911.95	0.2664	0.1228
Mercury	51375-12-16 01:55 G	20485742.47	20485742.58	20485742.69	0.2670	0.0346
Mercury	51388-12-17 19:41 G	20490493.22	20490493.32	20490493.43	0.2670	0.0910
Mercury	51395-12-11 19:26 G	20493043.30	20493043.31	20493043.32	0.2664	0.2649
Mercury	51398-06-18 06:29 G	20493962.62	20493962.77	20493962.92	0.2661	0.1060
Mercury	51401-12-21 13:26 G	20495244.00	20495244.06	20495244.12	0.2664	0.2108
Mercury	51408-12-14 12:58 G	20497793.95	20497794.04	20497794.13	0.2668	0.1318
Mercury	51411-06-22 13:55 G	20498713.95	20498714.08	20498714.21	0.2666	0.1561
Venus	51416-02-24 05:02 G	20500421.56	20500421.71	20500421.87	0.2644	0.0148
Mercury	51421-12-17 06:43 G	20502544.68	20502544.78	20502544.89	0.2670	0.0178
Mercury	51434-12-20 00:29 G	20507295.43	20507295.52	20507295.62	0.2669	0.1161
Mercury	51441-12-13 00:14 G	20509845.46	20509845.51	20509845.56	0.2666	0.2321
Mercury	51444-06-19 13:12 G	20510764.89	20510765.05	20510765.21	0.2662	0.0554
Mercury	51447-12-22 18:14 G	20512046.21	20512046.26	20512046.31	0.2663	0.2367
Mercury	51454-12-15 17:46 G	20514596.14	20514596.24	20514596.34	0.2668	0.1201
Mercury	51457-06-22 20:38 G	20515516.26	20515516.36	20515516.46	0.2667	0.2116
Mercury	51467-12-18 11:46 G	20519346.88	20519346.99	20519347.09	0.2671	0.0206
Mercury	51477-06-17 12:29 G	20522815.99	20522816.02	20522816.04	0.2659	0.2615
Mercury	51480-12-20 05:31 G	20524097.63	20524097.73	20524097.82	0.2668	0.1345
Mercury	51487-12-14 05:02 G	20526647.65	20526647.71	20526647.77	0.2667	0.2171
Mercury	51490-06-20 19:41 G	20527567.16	20527567.32	20527567.48	0.2663	0.0178
Mercury	51493-12-22 23:02 G	20528848.44	20528848.46	20528848.48	0.2662	0.2600
Mercury	51500-12-16 22:34 G	20531398.34	20531398.44	20531398.55	0.2669	0.0847
Mercury	51503-06-25 03:36 G	20532318.61	20532318.65	20532318.68	0.2667	0.2598
Mercury	51513-12-19 16:34 G	20536149.08	20536149.19	20536149.30	0.2671	0.0312
Mercury	51523-06-19 19:12 G	20539618.22	20539618.30	20539618.37	0.2660	0.2358
Mercury	51526-12-22 10:19 G	20540899.85	20540899.93	20540900.01	0.2666	0.1674

Venus	51529-08-28 04:05 G	20541879.56	20541879.67	20541879.79	0.2699	0.1721
Mercury	51533-12-15 09:50 G	20543449.83	20543449.91	20543449.98	0.2667	0.1884
Mercury	51536-06-22 02:10 G	20544369.43	20544369.59	20544369.75	0.2664	0.0441
Venus	51537-08-25 22:19 G	20544799.35	20544799.43	20544799.52	0.2698	0.2223
Mercury	51546-12-18 03:36 G	20548200.54	20548200.65	20548200.75	0.2670	0.0686
Mercury	51559-12-20 21:22 G	20552951.29	20552951.39	20552951.49	0.2670	0.0665
Mercury	51569-06-20 01:41 G	20556420.44	20556420.57	20556420.69	0.2661	0.1690
Mercury	51572-12-22 15:07 G	20557702.06	20557702.13	20557702.21	0.2666	0.1800
Mercury	51579-12-16 14:38 G	20560252.02	20560252.11	20560252.19	0.2667	0.1672
Mercury	51582-06-23 08:53 G	20561171.71	20561171.87	20561172.03	0.2665	0.0709
Mercury	51592-12-18 08:24 G	20565002.74	20565002.85	20565002.96	0.2671	0.0378
Mercury	51605-12-21 02:24 G	20569753.49	20569753.60	20569753.70	0.2669	0.0816
Mercury	51612-12-14 01:55 G	20572303.56	20572303.58	20572303.60	0.2665	0.2602
Mercury	51615-06-21 07:55 G	20573222.70	20573222.83	20573222.97	0.2662	0.1427
Mercury	51618-12-23 19:55 G	20574504.27	20574504.33	20574504.39	0.2665	0.2152
Mercury	51625-12-16 19:26 G	20577054.22	20577054.31	20577054.40	0.2669	0.1436
Mercury	51628-06-23 15:36 G	20577974.01	20577974.15	20577974.29	0.2665	0.1430
Mercury	51638-12-19 13:12 G	20581804.94	20581805.05	20581805.16	0.2671	0.0183
Mercury	51651-12-22 07:12 G	20586555.70	20586555.80	20586555.90	0.2668	0.1134
Mercury	51658-12-15 06:43 G	20589105.74	20589105.78	20589105.81	0.2665	0.2475
Venus	51659-02-25 17:02 G	20589178.05	20589178.21	20589178.36	0.2639	0.0567
Mercury	51661-06-21 14:24 G	20590024.95	20590025.10	20590025.26	0.2662	0.0851
Mercury	51664-12-24 00:43 G	20591306.48	20591306.53	20591306.59	0.2665	0.2251
Venus	51667-02-23 07:12 G	20592097.76	20592097.80	20592097.84	0.2635	0.2554
Mercury	51671-12-18 00:14 G	20593856.41	20593856.51	20593856.61	0.2670	0.1140
Mercury	51674-06-24 22:34 G	20594776.31	20594776.44	20594776.56	0.2666	0.1707
Mercury	51684-12-19 18:14 G	20598607.15	20598607.26	20598607.36	0.2671	0.0134
Mercury	51697-12-22 12:00 G	20603357.91	20603358.00	20603358.10	0.2668	0.1332
Mercury	51704-12-16 11:31 G	20605907.91	20605907.98	20605908.04	0.2666	0.2125
Mercury	51707-06-23 21:07 G	20606827.22	20606827.38	20606827.54	0.2662	0.0454

Mercury	51710-12-26 05:31 G	20608108.71	20608108.73	20608108.75	0.2663	0.2579
Mercury	51717-12-19 05:02 G	20610658.61	20610658.71	20610658.81	0.2671	0.1000
Mercury	51720-06-26 05:17 G	20611578.65	20611578.72	20611578.79	0.2668	0.2392
Mercury	51730-12-21 23:02 G	20615409.35	20615409.46	20615409.57	0.2670	0.0354
Mercury	51740-06-20 20:38 G	20618878.30	20618878.36	20618878.42	0.2660	0.2476
Mercury	51743-12-24 16:48 G	20620160.12	20620160.20	20620160.29	0.2668	0.1576
Mercury	51750-12-17 16:19 G	20622710.11	20622710.18	20622710.25	0.2668	0.2003
Mercury	51753-06-24 04:05 G	20623629.50	20623629.67	20623629.83	0.2663	0.0098
Mercury	51763-12-20 09:50 G	20627460.81	20627460.91	20627461.02	0.2670	0.0655
Venus	51772-08-29 09:22 G	20630635.77	20630635.89	20630636.02	0.2686	0.1735
Mercury	51776-12-22 04:05 G	20632211.56	20632211.67	20632211.77	0.2670	0.0534
Venus	51780-08-26 18:00 G	20633555.15	20633555.25	20633555.36	0.2684	0.2092
Mercury	51786-06-22 03:07 G	20635680.54	20635680.63	20635680.72	0.2660	0.2184
Mercury	51789-12-24 21:36 G	20636962.32	20636962.40	20636962.48	0.2667	0.1817
Mercury	51796-12-17 21:07 G	20639512.29	20639512.38	20639512.46	0.2669	0.1661
Mercury	51799-06-25 10:34 G	20640431.79	20640431.94	20640432.10	0.2664	0.0583
Mercury	51809-12-21 14:53 G	20644263.01	20644263.12	20644263.23	0.2670	0.0515
Mercury	51822-12-24 08:53 G	20649013.77	20649013.87	20649013.97	0.2670	0.0872
Mercury	51832-06-23 09:50 G	20652482.78	20652482.91	20652483.04	0.2660	0.1508
Mercury	51835-12-27 02:24 G	20653764.53	20653764.60	20653764.67	0.2665	0.1996
Mercury	51842-12-20 01:55 G	20656314.49	20656314.58	20656314.67	0.2670	0.1520
Mercury	51845-06-26 17:17 G	20657234.07	20657234.22	20657234.37	0.2666	0.0949
Mercury	51855-12-22 19:55 G	20661065.22	20661065.33	20661065.43	0.2671	0.0189
Mercury	51868-12-24 13:41 G	20665815.97	20665816.07	20665816.17	0.2670	0.0987
Mercury	51875-12-18 12:58 G	20668366.00	20668366.04	20668366.08	0.2667	0.2451
Mercury	51878-06-24 16:34 G	20669285.05	20669285.19	20669285.33	0.2661	0.1248
Mercury	51881-12-27 07:12 G	20670566.75	20670566.80	20670566.85	0.2663	0.2321
Mercury	51888-12-20 06:43 G	20673116.68	20673116.78	20673116.88	0.2670	0.1209
Mercury	51891-06-28 00:00 G	20674036.37	20674036.50	20674036.63	0.2667	0.1601
Mercury	51901-12-24 00:43 G	20677867.42	20677867.53	20677867.64	0.2672	0.0001

Venus	51902-02-28 09:36 G	20677933.74	20677933.90	20677934.05	0.2639	0.0412
Mercury	51914-12-26 18:29 G	20682618.18	20682618.27	20682618.36	0.2669	0.1337
Mercury	51921-12-19 17:46 G	20685168.19	20685168.24	20685168.30	0.2668	0.2270
Mercury	51924-06-25 23:02 G	20686087.30	20686087.46	20686087.62	0.2662	0.0594
Mercury	51927-12-29 12:00 G	20687368.96	20687369.00	20687369.05	0.2663	0.2432
Mercury	51934-12-22 11:31 G	20689918.88	20689918.98	20689919.08	0.2670	0.1001
Mercury	51937-06-29 06:43 G	20690838.67	20690838.78	20690838.89	0.2667	0.1881
Mercury	51947-12-25 05:31 G	20694669.62	20694669.73	20694669.84	0.2672	0.0308
Mercury	51960-12-26 23:17 G	20699420.38	20699420.47	20699420.56	0.2667	0.1483
Mercury	51967-12-20 22:34 G	20701970.37	20701970.44	20701970.52	0.2668	0.1959
Mercury	51970-06-27 05:31 G	20702889.57	20702889.73	20702889.89	0.2664	0.0325
Mercury	51980-12-22 16:34 G	20706721.09	20706721.19	20706721.29	0.2671	0.0758
Mercury	51983-06-30 13:41 G	20707641.04	20707641.07	20707641.10	0.2668	0.2611
Mercury	51993-12-25 10:19 G	20711471.83	20711471.93	20711472.04	0.2671	0.0500

53RD MILLENNIUM CE

This is a list of transits visible from Moon in the 53rd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	52003-06-25 05:02 G		20714940.64	20714940.71	20714940.79	0.2660	0.2341	
Mercury	52006-12-28 04:19 G		20716222.60	20716222.68	20716222.75	0.2666	0.1799	
Mercury	52013-12-21 03:22 G		20718772.57	20718772.64	20718772.72	0.2668	0.1817	
Venus	52015-09-01 00:58 G		20719391.39	20719391.54	20719391.69	0.2697	0.0702	
Mercury	52016-06-27 12:00 G		20719691.84	20719692.00	20719692.16	0.2664	0.0298	

Mercury	52026-12-23 21:22 G	20723523.28	20723523.39	20723523.50	0.2672	0.0463
Mercury	52039-12-26 15:22 G	20728274.03	20728274.14	20728274.24	0.2670	0.0757
Mercury	52049-06-25 11:31 G	20731742.87	20731742.98	20731743.09	0.2661	0.1937
Mercury	52052-12-28 09:07 G	20733024.81	20733024.88	20733024.95	0.2666	0.1968
Mercury	52059-12-22 08:24 G	20735574.76	20735574.85	20735574.94	0.2669	0.1462
Mercury	52062-06-28 18:58 G	20736494.13	20736494.29	20736494.45	0.2664	0.0680
Mercury	52072-12-24 02:10 G	20740325.48	20740325.59	20740325.70	0.2672	0.0314
Mercury	52085-12-26 20:10 G	20745076.24	20745076.34	20745076.44	0.2669	0.1037
Mercury	52092-12-19 19:26 G	20747626.27	20747626.31	20747626.35	0.2666	0.2465
Mercury	52095-06-26 18:00 G	20748545.11	20748545.25	20748545.39	0.2661	0.1373
Mercury	52098-12-29 13:41 G	20749827.02	20749827.07	20749827.13	0.2665	0.2225
Mercury	52105-12-23 13:12 G	20752376.96	20752377.05	20752377.15	0.2671	0.1335
Mercury	52108-06-30 01:41 G	20753296.43	20753296.57	20753296.72	0.2666	0.1234
Mercury	52118-12-26 06:58 G	20757127.69	20757127.79	20757127.90	0.2671	0.0086
Mercury	52131-12-29 00:58 G	20761878.45	20761878.54	20761878.64	0.2669	0.1200
Mercury	52138-12-22 00:14 G	20764428.46	20764428.51	20764428.57	0.2667	0.2318
Mercury	52141-06-28 00:43 G	20765347.38	20765347.53	20765347.67	0.2662	0.1072
Mercury	52144-12-30 18:29 G	20766629.23	20766629.27	20766629.31	0.2663	0.2451
Venus	52145-03-01 21:22 G	20766690.25	20766690.39	20766690.53	0.2644	0.1129
Mercury	52151-12-24 18:00 G	20769179.15	20769179.25	20769179.35	0.2672	0.0987
Venus	52153-02-27 15:07 G	20769610.07	20769610.13	20769610.20	0.2640	0.2391
Mercury	52154-07-01 08:38 G	20770098.73	20770098.86	20770098.98	0.2668	0.1749
Mercury	52164-12-26 12:00 G	20773929.89	20773930.00	20773930.11	0.2671	0.0174
Mercury	52177-12-29 05:46 G	20778680.66	20778680.74	20778680.83	0.2669	0.1528
Mercury	52184-12-22 05:02 G	20781230.65	20781230.71	20781230.78	0.2669	0.2034
Mercury	52187-06-29 07:26 G	20782149.65	20782149.81	20782149.97	0.2662	0.0400
Mercury	52190-12-31 23:17 G	20783431.46	20783431.47	20783431.49	0.2661	0.2616
Mercury	52197-12-24 22:48 G	20785981.35	20785981.45	20785981.56	0.2671	0.0852
Mercury	52200-07-02 15:22 G	20786901.04	20786901.14	20786901.23	0.2669	0.2128
Mercury	52210-12-28 17:02 G	20790732.10	20790732.21	20790732.31	0.2671	0.0537

Mercury	52220-06-27 06:43 G	20794200.73	20794200.78	20794200.82	0.2659	0.2543
Mercury	52223-12-31 10:48 G	20795482.86	20795482.95	20795483.03	0.2668	0.1648
Mercury	52230-12-24 09:50 G	20798032.84	20798032.91	20798032.99	0.2670	0.1799
Mercury	52233-06-30 14:10 G	20798951.93	20798952.09	20798952.25	0.2664	0.0138
Mercury	52243-12-27 03:50 G	20802783.55	20802783.66	20802783.76	0.2671	0.0534
Mercury	52256-12-28 21:50 G	20807534.30	20807534.41	20807534.51	0.2671	0.0669
Venus	52258-09-03 10:19 G	20808147.83	20808147.93	20808148.04	0.2690	0.1996
Mercury	52266-06-28 13:26 G	20811002.97	20811003.06	20811003.14	0.2659	0.2228
Venus	52266-08-31 20:53 G	20811067.29	20811067.37	20811067.45	0.2685	0.2325
Mercury	52269-12-31 15:36 G	20812285.08	20812285.15	20812285.22	0.2666	0.1992
Mercury	52276-12-24 14:38 G	20814835.03	20814835.11	20814835.20	0.2670	0.1605
Mercury	52279-07-01 20:38 G	20815754.20	20815754.36	20815754.52	0.2666	0.0539
Mercury	52289-12-27 08:38 G	20819585.76	20819585.86	20819585.97	0.2672	0.0319
Mercury	52302-12-31 02:38 G	20824336.51	20824336.61	20824336.71	0.2671	0.0983
Mercury	52309-12-24 01:55 G	20826886.57	20826886.58	20826886.60	0.2668	0.2627
Mercury	52312-06-29 19:55 G	20827805.21	20827805.33	20827805.46	0.2660	0.1656
Mercury	52316-01-02 20:24 G	20829087.28	20829087.35	20829087.41	0.2664	0.2118
Mercury	52322-12-26 19:41 G	20831637.22	20831637.32	20831637.41	0.2670	0.1304
Mercury	52325-07-03 03:22 G	20832556.48	20832556.64	20832556.79	0.2667	0.0819
Mercury	52335-12-29 13:41 G	20836387.96	20836388.07	20836388.18	0.2672	0.0080
Mercury	52348-12-31 07:26 G	20841138.72	20841138.81	20841138.91	0.2669	0.1173
Mercury	52355-12-25 06:43 G	20843688.72	20843688.78	20843688.83	0.2669	0.2272
Mercury	52358-07-01 02:24 G	20844607.46	20844607.60	20844607.75	0.2662	0.1246
Mercury	52362-01-03 01:12 G	20845889.51	20845889.55	20845889.59	0.2664	0.2436
Mercury	52368-12-27 00:29 G	20848439.42	20848439.52	20848439.62	0.2671	0.1140
Mercury	52371-07-04 10:05 G	20849358.78	20849358.92	20849359.05	0.2667	0.1475
Mercury	52381-12-29 18:29 G	20853190.16	20853190.27	20853190.38	0.2672	0.0210
Venus	52388-03-03 16:34 G	20855446.03	20855446.19	20855446.36	0.2635	0.0122
Mercury	52395-01-01 12:29 G	20857940.93	20857941.02	20857941.11	0.2668	0.1417
Mercury	52401-12-25 11:31 G	20860490.92	20860490.98	20860491.04	0.2669	0.2168

Mercury	52404-07-01 09:07 G	20861409.72	20861409.88	20861410.03	0.2663	0.0836
Mercury	52408-01-04 05:46 G	20862691.72	20862691.74	20862691.77	0.2663	0.2583
Mercury	52414-12-28 05:31 G	20865241.62	20865241.73	20865241.83	0.2672	0.0789
Mercury	52417-07-04 17:02 G	20866161.10	20866161.21	20866161.32	0.2668	0.1849
Mercury	52427-12-30 23:17 G	20869992.37	20869992.47	20869992.58	0.2672	0.0374
Mercury	52441-01-01 17:17 G	20874743.14	20874743.22	20874743.30	0.2667	0.1692
Mercury	52447-12-26 16:19 G	20877293.10	20877293.18	20877293.26	0.2669	0.1811
Mercury	52450-07-02 15:36 G	20878211.99	20878212.15	20878212.31	0.2664	0.0262
Mercury	52460-12-28 10:19 G	20882043.82	20882043.93	20882044.03	0.2673	0.0660
Mercury	52463-07-06 00:00 G	20882963.43	20882963.50	20882963.56	0.2669	0.2425
Mercury	52473-12-31 04:19 G	20886794.57	20886794.68	20886794.78	0.2671	0.0713
Mercury	52483-06-30 15:07 G	20890263.06	20890263.13	20890263.21	0.2660	0.2331
Mercury	52487-01-02 22:05 G	20891545.34	20891545.42	20891545.49	0.2667	0.1849
Mercury	52493-12-26 21:07 G	20894095.30	20894095.38	20894095.47	0.2671	0.1655
Mercury	52496-07-02 22:19 G	20895014.27	20895014.43	20895014.60	0.2664	0.0107
Venus	52501-09-04 23:17 G	20896903.31	20896903.47	20896903.63	0.2692	0.0043
Mercury	52506-12-30 15:07 G	20898846.02	20898846.13	20898846.24	0.2673	0.0308
Mercury	52520-01-02 09:07 G	20903596.78	20903596.88	20903596.99	0.2670	0.0854
Mercury	52526-12-26 08:10 G	20906146.83	20906146.84	20906146.86	0.2667	0.2608
Mercury	52529-07-01 21:36 G	20907065.31	20907065.40	20907065.50	0.2661	0.2085
Mercury	52533-01-04 02:53 G	20908347.55	20908347.62	20908347.68	0.2666	0.2163
Mercury	52539-12-29 02:10 G	20910897.50	20910897.59	20910897.68	0.2672	0.1365
Mercury	52542-07-05 05:17 G	20911816.56	20911816.72	20911816.87	0.2665	0.0742
Mercury	52552-12-30 20:10 G	20915648.23	20915648.34	20915648.44	0.2672	0.0198
Mercury	52566-01-02 14:10 G	20920398.99	20920399.09	20920399.18	0.2670	0.1209
Mercury	52572-12-26 13:12 G	20922949.00	20922949.05	20922949.09	0.2668	0.2414
Mercury	52575-07-03 04:19 G	20923867.54	20923867.68	20923867.81	0.2661	0.1430
Mercury	52579-01-05 07:41 G	20925149.76	20925149.82	20925149.87	0.2664	0.2279
Mercury	52585-12-29 06:58 G	20927699.69	20927699.79	20927699.89	0.2673	0.1133
Mercury	52588-07-05 12:00 G	20928618.86	20928619.00	20928619.15	0.2667	0.1028

Mercury	52599-01-01 00:58 G	20932450.43	20932450.54	20932450.65	0.2672	0.0158
Mercury	52612-01-04 18:43 G	20937201.19	20937201.28	20937201.38	0.2669	0.1328
Mercury	52618-12-28 18:00 G	20939751.18	20939751.25	20939751.31	0.2670	0.2097
Mercury	52621-07-04 11:02 G	20940669.81	20940669.96	20940670.10	0.2662	0.1128
Mercury	52625-01-06 12:29 G	20941952.00	20941952.02	20941952.03	0.2662	0.2617
Venus	52631-03-07 00:14 G	20944202.37	20944202.51	20944202.65	0.2647	0.0981
Mercury	52631-12-31 11:46 G	20944501.89	20944501.99	20944502.09	0.2672	0.0923
Mercury	52634-07-07 18:43 G	20945421.16	20945421.28	20945421.40	0.2669	0.1721
Venus	52639-03-04 20:10 G	20947122.29	20947122.34	20947122.39	0.2644	0.2467
Mercury	52645-01-02 06:00 G	20949252.64	20949252.75	20949252.85	0.2672	0.0386
Mercury	52658-01-04 23:46 G	20954003.40	20954003.49	20954003.57	0.2668	0.1644
Mercury	52664-12-28 22:48 G	20956553.38	20956553.45	20956553.52	0.2671	0.1972
Mercury	52667-07-05 17:31 G	20957472.08	20957472.23	20957472.39	0.2663	0.0548
Mercury	52677-12-31 16:48 G	20961304.09	20961304.20	20961304.30	0.2672	0.0628
Mercury	52680-07-08 01:26 G	20962223.46	20962223.56	20962223.67	0.2669	0.2000
Mercury	52691-01-03 10:48 G	20966054.84	20966054.95	20966055.05	0.2672	0.0600
Mercury	52704-01-07 04:34 G	20970805.61	20970805.69	20970805.77	0.2666	0.1825
Mercury	52710-12-31 03:36 G	20973355.56	20973355.65	20973355.74	0.2671	0.1612
Mercury	52713-07-07 00:14 G	20974274.35	20974274.51	20974274.67	0.2665	0.0115
Mercury	52724-01-02 21:36 G	20978106.30	20978106.40	20978106.51	0.2673	0.0461
Mercury	52737-01-04 15:36 G	20982857.05	20982857.15	20982857.25	0.2671	0.0877
Mercury	52743-12-29 14:38 G	20985407.10	20985407.11	20985407.13	0.2669	0.2636
Venus	52744-09-07 09:22 G	20985659.76	20985659.89	20985660.02	0.2694	0.1523
Mercury	52746-07-04 23:46 G	20986325.40	20986325.49	20986325.58	0.2660	0.2142
Mercury	52750-01-07 09:22 G	20987607.82	20987607.89	20987607.96	0.2665	0.2055
Mercury	52756-12-31 08:24 G	20990157.76	20990157.85	20990157.94	0.2671	0.1502
Mercury	52759-07-08 06:58 G	20991076.63	20991076.79	20991076.95	0.2666	0.0325
Mercury	52770-01-03 02:38 G	20994908.50	20994908.61	20994908.72	0.2673	0.0112
Mercury	52783-01-05 20:24 G	20999659.25	20999659.35	20999659.45	0.2670	0.1043
Mercury	52789-12-29 19:26 G	21002209.27	21002209.31	21002209.35	0.2670	0.2459

Mercury	52792-07-05 06:14 G	21003127.65	21003127.76	21003127.88	0.2662	0.1869
Mercury	52796-01-08 14:10 G	21004410.04	21004410.09	21004410.14	0.2664	0.2315
Mercury	52803-01-01 13:26 G	21006959.96	21006960.06	21006960.16	0.2672	0.1142
Mercury	52805-07-08 13:41 G	21007878.92	21007879.07	21007879.22	0.2666	0.0885
Mercury	52816-01-04 07:26 G	21011710.70	21011710.81	21011710.92	0.2673	0.0023
Mercury	52829-01-06 01:26 G	21016461.47	21016461.56	21016461.65	0.2668	0.1384
Mercury	52835-12-31 00:14 G	21019011.45	21019011.51	21019011.58	0.2670	0.2198
Mercury	52838-07-06 12:43 G	21019929.89	21019930.03	21019930.17	0.2663	0.1226
Mercury	52842-01-08 18:58 G	21021212.25	21021212.29	21021212.33	0.2664	0.2476
Mercury	52849-01-01 18:29 G	21023762.16	21023762.27	21023762.37	0.2673	0.0973
Mercury	52851-07-09 20:38 G	21024681.22	21024681.36	21024681.50	0.2667	0.1261
Mercury	52862-01-04 12:14 G	21028512.90	21028513.01	21028513.12	0.2673	0.0371
Venus	52874-03-08 00:58 G	21032958.38	21032958.54	21032958.70	0.2634	0.0835
Mercury	52875-01-07 06:14 G	21033263.67	21033263.76	21033263.85	0.2668	0.1500
Mercury	52881-12-31 05:17 G	21035813.64	21035813.72	21035813.79	0.2670	0.1959
Venus	52882-03-05 13:26 G	21035878.02	21035878.06	21035878.10	0.2637	0.2539
Mercury	52884-07-06 19:26 G	21036732.16	21036732.31	21036732.46	0.2663	0.0978
Mercury	52895-01-02 23:17 G	21040564.36	21040564.47	21040564.57	0.2674	0.0687
Mercury	52897-07-10 03:36 G	21041483.54	21041483.65	21041483.75	0.2669	0.1929
Mercury	52908-01-06 17:17 G	21045315.11	21045315.22	21045315.32	0.2672	0.0528
Mercury	52921-01-08 11:02 G	21050065.88	21050065.96	21050066.04	0.2667	0.1853
Mercury	52928-01-02 10:05 G	21052615.84	21052615.92	21052616.00	0.2671	0.1752
Mercury	52930-07-09 02:10 G	21053534.43	21053534.59	21053534.75	0.2664	0.0293
Mercury	52941-01-04 04:05 G	21057366.56	21057366.67	21057366.78	0.2674	0.0462
Mercury	52943-07-12 10:34 G	21058285.85	21058285.94	21058286.02	0.2671	0.2231
Mercury	52954-01-06 22:05 G	21062117.32	21062117.42	21062117.53	0.2671	0.0834
Mercury	52963-07-07 01:26 G	21065585.51	21065585.56	21065585.61	0.2661	0.2502
Mercury	52967-01-09 15:50 G	21066868.09	21066868.16	21066868.23	0.2667	0.1958
Mercury	52974-01-02 14:53 G	21069418.03	21069418.12	21069418.22	0.2673	0.1430
Mercury	52976-07-09 08:53 G	21070336.71	21070336.87	21070337.03	0.2665	0.0037

Mercury 52987-01-05 08:53 G 21074168.76 21074168.87 21074168.98 0.2673 0.0246

Venus 52987-09-09 00:14 G 21074415.35 21074415.51 21074415.68 0.2686 0.0271

Mercury 53000-01-08 03:07 G 21078919.53 21078919.63 21078919.73 0.2670 0.1043

54TH MILLENNIUM CE

This is a list of transits visible from Moon in the 54th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	53007-01-02 01:55	G	21081469.54	21081469.58	21081469.62	0.2669	0.2427	
Mercury	53009-07-08 08:10	G	21082387.74	21082387.84	21082387.94	0.2661	0.2020	
Mercury	53013-01-10 20:38	G	21083670.30	21083670.36	21083670.41	0.2665	0.2268	
Mercury	53020-01-04 19:55	G	21086220.23	21086220.33	21086220.42	0.2673	0.1301	
Mercury	53022-07-11 15:36	G	21087139.00	21087139.15	21087139.31	0.2667	0.0616	
Mercury	53033-01-06 13:55	G	21090970.97	21090971.08	21090971.19	0.2673	0.0070	
Mercury	53046-01-09 07:55	G	21095721.73	21095721.83	21095721.92	0.2670	0.1265	
Mercury	53053-01-02 06:43	G	21098271.73	21098271.78	21098271.84	0.2671	0.2302	
Mercury	53055-07-09 14:53	G	21099189.99	21099190.12	21099190.25	0.2661	0.1610	
Mercury	53059-01-12 01:26	G	21100472.52	21100472.56	21100472.60	0.2662	0.2440	
Mercury	53066-01-05 00:43	G	21103022.43	21103022.53	21103022.63	0.2673	0.0947	
Mercury	53068-07-11 22:34	G	21103941.29	21103941.44	21103941.58	0.2669	0.1053	
Mercury	53079-01-07 18:58	G	21107773.18	21107773.29	21107773.40	0.2673	0.0232	
Mercury	53092-01-10 12:43	G	21112523.94	21112524.03	21112524.12	0.2669	0.1531	
Mercury	53099-01-03 11:31	G	21115073.91	21115073.98	21115074.06	0.2672	0.1977	
Mercury	53101-07-10 21:22	G	21115992.25	21115992.39	21115992.54	0.2663	0.1039	

Mercury	53112-01-07 05:31 G	21119824.63	21119824.73	21119824.84	0.2673	0.0819
Mercury	53114-07-14 05:17 G	21120743.59	21120743.72	21120743.85	0.2669	0.1524
Venus	53117-03-11 02:38 G	21121714.46	21121714.61	21121714.76	0.2648	0.0562
Mercury	53125-01-08 23:46 G	21124575.38	21124575.49	21124575.59	0.2673	0.0577
Venus	53125-03-08 23:17 G	21124634.39	21124634.47	21124634.55	0.2648	0.2192
Mercury	53138-01-11 17:31 G	21129326.15	21129326.23	21129326.31	0.2667	0.1683
Mercury	53145-01-04 16:34 G	21131876.11	21131876.19	21131876.27	0.2672	0.1810
Mercury	53147-07-12 04:05 G	21132794.52	21132794.67	21132794.83	0.2665	0.0757
Mercury	53158-01-07 10:34 G	21136626.83	21136626.94	21136627.05	0.2674	0.0461
Mercury	53160-07-14 12:00 G	21137545.90	21137546.00	21137546.10	0.2669	0.2062
Mercury	53171-01-10 04:34 G	21141377.59	21141377.69	21141377.79	0.2672	0.0683
Mercury	53184-01-12 22:19 G	21146128.36	21146128.43	21146128.50	0.2665	0.2021
Mercury	53191-01-05 21:22 G	21148678.30	21148678.39	21148678.48	0.2672	0.1524
Mercury	53193-07-12 10:34 G	21149596.79	21149596.94	21149597.10	0.2666	0.0115
Mercury	53204-01-08 15:36 G	21153429.04	21153429.15	21153429.26	0.2674	0.0291
Mercury	53206-07-15 19:12 G	21154348.24	21154348.30	21154348.35	0.2670	0.2479
Mercury	53217-01-10 09:22 G	21158179.79	21158179.89	21158179.99	0.2671	0.1038
Mercury	53224-01-04 08:24 G	21160729.82	21160729.85	21160729.87	0.2671	0.2595
Mercury	53226-07-10 10:05 G	21161647.84	21161647.92	21161648.01	0.2661	0.2225
Mercury	53230-01-13 03:07 G	21162930.57	21162930.63	21162930.69	0.2665	0.2122
Venus	53230-09-11 06:14 G	21163171.61	21163171.76	21163171.91	0.2697	0.0489
Mercury	53237-01-06 02:10 G	21165480.50	21165480.59	21165480.69	0.2673	0.1290
Mercury	53239-07-13 17:31 G	21166399.07	21166399.23	21166399.39	0.2666	0.0171
Mercury	53250-01-08 20:24 G	21170231.24	21170231.35	21170231.46	0.2674	0.0025
Mercury	53263-01-11 14:24 G	21174982.00	21174982.10	21174982.20	0.2669	0.1191
Mercury	53270-01-04 13:12 G	21177531.99	21177532.05	21177532.10	0.2671	0.2261
Mercury	53272-07-10 16:34 G	21178450.08	21178450.19	21178450.30	0.2663	0.1888
Mercury	53276-01-14 07:55 G	21179732.79	21179732.83	21179732.87	0.2665	0.2470
Mercury	53283-01-07 07:12 G	21182282.70	21182282.80	21182282.90	0.2674	0.1078
Mercury	53285-07-14 00:14 G	21183201.36	21183201.51	21183201.66	0.2667	0.0873

Mercury	53296-01-10 01:12 G	21187033.44	21187033.55	21187033.66	0.2673	0.0210
Mercury	53309-01-12 19:12 G	21191784.21	21191784.30	21191784.39	0.2668	0.1481
Mercury	53316-01-06 18:00 G	21194334.19	21194334.25	21194334.31	0.2671	0.2129
Mercury	53318-07-12 23:17 G	21195252.34	21195252.47	21195252.61	0.2663	0.1374
Mercury	53322-01-15 12:43 G	21196535.00	21196535.03	21196535.05	0.2663	0.2568
Mercury	53329-01-08 12:00 G	21199084.90	21199085.00	21199085.11	0.2675	0.0760
Mercury	53331-07-16 07:12 G	21200003.66	21200003.80	21200003.94	0.2669	0.1192
Mercury	53342-01-11 06:14 G	21203835.65	21203835.76	21203835.86	0.2672	0.0448
Mercury	53355-01-14 00:00 G	21208586.42	21208586.50	21208586.58	0.2668	0.1673
Venus	53360-03-12 09:36 G	21210470.78	21210470.90	21210471.03	0.2636	0.1705
Mercury	53362-01-06 22:48 G	21211136.37	21211136.45	21211136.54	0.2673	0.1773
Mercury	53364-07-13 06:00 G	21212054.60	21212054.75	21212054.90	0.2663	0.0919
Venus	53368-03-09 22:05 G	21213390.34	21213390.42	21213390.49	0.2636	0.2338
Mercury	53375-01-09 17:02 G	21215887.10	21215887.21	21215887.31	0.2675	0.0627
Mercury	53377-07-16 14:10 G	21216805.98	21216806.09	21216806.21	0.2671	0.1818
Mercury	53388-01-12 11:02 G	21220637.86	21220637.96	21220638.07	0.2671	0.0747
Mercury	53401-01-15 04:48 G	21225388.62	21225388.70	21225388.77	0.2667	0.1901
Mercury	53408-01-09 03:50 G	21227938.57	21227938.66	21227938.75	0.2674	0.1637
Mercury	53410-07-15 12:43 G	21228856.88	21228857.03	21228857.19	0.2665	0.0486
Mercury	53421-01-10 21:50 G	21232689.30	21232689.41	21232689.52	0.2674	0.0273
Mercury	53423-07-18 20:53 G	21233608.29	21233608.37	21233608.46	0.2671	0.2237
Mercury	53434-01-13 16:05 G	21237440.06	21237440.17	21237440.27	0.2671	0.0891
Mercury	53441-01-06 14:38 G	21239990.10	21239990.11	21239990.13	0.2670	0.2620
Mercury	53443-07-13 12:14 G	21240908.00	21240908.01	21240908.01	0.2660	0.2656
Mercury	53447-01-16 09:36 G	21242190.84	21242190.90	21242190.96	0.2665	0.2156
Mercury	53454-01-09 08:38 G	21244740.77	21244740.86	21244740.96	0.2674	0.1303
Mercury	53456-07-15 19:41 G	21245659.16	21245659.32	21245659.47	0.2667	0.0136
Mercury	53467-01-12 02:53 G	21249491.51	21249491.62	21249491.73	0.2674	0.0144
Venus	53473-09-13 03:07 G	21251927.47	21251927.63	21251927.80	0.2683	0.0671
Mercury	53480-01-14 20:38 G	21254242.27	21254242.36	21254242.46	0.2671	0.1232

Mercury	53487-01-07 19:41 G	21256792.27	21256792.32	21256792.37	0.2672	0.2362
Mercury	53489-07-13 18:43 G	21257710.18	21257710.28	21257710.39	0.2661	0.1975
Mercury	53493-01-16 14:24 G	21258993.05	21258993.10	21258993.15	0.2663	0.2295
Mercury	53500-01-10 13:26 G	21261542.97	21261543.06	21261543.16	0.2674	0.1147
Mercury	53502-07-18 02:24 G	21262461.44	21262461.60	21262461.75	0.2668	0.0404
Mercury	53513-01-13 07:41 G	21266293.71	21266293.82	21266293.93	0.2673	0.0229
Mercury	53526-01-16 01:41 G	21271044.47	21271044.57	21271044.66	0.2670	0.1338
Mercury	53533-01-09 00:29 G	21273594.45	21273594.52	21273594.58	0.2673	0.2097
Mercury	53535-07-16 01:26 G	21274512.44	21274512.56	21274512.68	0.2663	0.1732
Mercury	53539-01-18 19:12 G	21275795.28	21275795.30	21275795.31	0.2662	0.2627
Mercury	53546-01-11 18:29 G	21278345.17	21278345.27	21278345.37	0.2674	0.0849
Mercury	53548-07-18 09:07 G	21279263.73	21279263.88	21279264.02	0.2669	0.1091
Mercury	53559-01-14 12:43 G	21283095.92	21283096.03	21283096.13	0.2673	0.0382
Mercury	53572-01-17 06:29 G	21287846.69	21287846.77	21287846.85	0.2667	0.1680
Mercury	53579-01-10 05:17 G	21290396.64	21290396.72	21290396.79	0.2673	0.1929
Mercury	53581-07-16 07:55 G	21291314.69	21291314.83	21291314.98	0.2665	0.1112
Mercury	53592-01-12 23:31 G	21295147.37	21295147.48	21295147.58	0.2674	0.0611
Mercury	53594-07-19 15:50 G	21296066.03	21296066.16	21296066.30	0.2669	0.1355
Venus	53603-03-15 04:48 G	21299226.55	21299226.70	21299226.85	0.2645	0.0564
Mercury	53605-01-14 17:31 G	21299898.12	21299898.23	21299898.33	0.2673	0.0665
Venus	53611-03-13 00:29 G	21302146.42	21302146.52	21302146.63	0.2649	0.1883
Mercury	53618-01-17 11:17 G	21304648.89	21304648.97	21304649.05	0.2666	0.1817
Mercury	53625-01-10 10:05 G	21307198.83	21307198.92	21307199.01	0.2673	0.1606
Mercury	53627-07-17 14:38 G	21308116.96	21308117.11	21308117.26	0.2666	0.0772
Mercury	53638-01-13 04:19 G	21311949.57	21311949.68	21311949.79	0.2675	0.0402
Mercury	53640-07-19 23:02 G	21312868.36	21312868.46	21312868.55	0.2670	0.2074
Mercury	53651-01-15 22:19 G	21316700.33	21316700.43	21316700.53	0.2671	0.0877
Mercury	53658-01-08 21:07 G	21319250.35	21319250.38	21319250.40	0.2672	0.2596
Mercury	53664-01-18 16:05 G	21321451.11	21321451.17	21321451.24	0.2666	0.2109
Mercury	53671-01-11 15:07 G	21324001.04	21324001.13	21324001.22	0.2674	0.1459

Mercury	53673-07-17 21:22 G	21324919.24	21324919.39	21324919.55	0.2666	0.0224
Mercury	53684-01-14 09:07 G	21328751.77	21328751.88	21328751.99	0.2675	0.0123
Mercury	53686-07-21 06:00 G	21329670.69	21329670.75	21329670.82	0.2672	0.2414
Mercury	53697-01-16 03:22 G	21333502.54	21333502.64	21333502.74	0.2670	0.1093
Mercury	53704-01-11 01:55 G	21336052.54	21336052.58	21336052.62	0.2672	0.2482
Mercury	53706-07-16 20:53 G	21336970.30	21336970.37	21336970.43	0.2662	0.2432
Mercury	53710-01-19 20:53 G	21338253.31	21338253.37	21338253.42	0.2665	0.2278
Venus	53716-09-15 02:24 G	21340683.45	21340683.60	21340683.75	0.2697	0.0195
Mercury	53717-01-12 19:55 G	21340803.23	21340803.33	21340803.43	0.2675	0.1098
Mercury	53719-07-20 04:19 G	21341721.52	21341721.68	21341721.83	0.2666	0.0232
Mercury	53730-01-15 14:10 G	21345553.98	21345554.09	21345554.20	0.2674	0.0073
Mercury	53743-01-18 08:10 G	21350304.75	21350304.84	21350304.93	0.2669	0.1393
Mercury	53750-01-11 06:43 G	21352854.72	21352854.78	21352854.85	0.2672	0.2137
Mercury	53752-07-17 03:22 G	21353772.53	21353772.64	21353772.76	0.2662	0.1796
Mercury	53756-01-21 01:26 G	21355055.53	21355055.56	21355055.60	0.2664	0.2505
Mercury	53763-01-14 00:58 G	21357605.44	21357605.54	21357605.64	0.2676	0.0967
Mercury	53765-07-20 11:17 G	21358523.81	21358523.97	21358524.12	0.2668	0.0688
Mercury	53776-01-16 18:58 G	21362356.19	21362356.29	21362356.40	0.2673	0.0413
Mercury	53789-01-18 12:58 G	21367106.95	21367107.04	21367107.13	0.2669	0.1524
Mercury	53796-01-12 11:46 G	21369656.91	21369656.99	21369657.06	0.2673	0.1961
Mercury	53798-07-18 10:05 G	21370574.79	21370574.92	21370575.05	0.2663	0.1540
Mercury	53809-01-15 05:46 G	21374407.64	21374407.74	21374407.85	0.2675	0.0628
Mercury	53811-07-22 18:00 G	21375326.12	21375326.25	21375326.39	0.2670	0.1298
Mercury	53822-01-18 00:00 G	21379158.39	21379158.50	21379158.61	0.2672	0.0542
Mercury	53835-01-20 17:46 G	21383909.16	21383909.24	21383909.31	0.2668	0.1854
Mercury	53842-01-13 16:34 G	21386459.11	21386459.19	21386459.28	0.2675	0.1699
Mercury	53844-07-19 16:48 G	21387377.05	21387377.20	21387377.35	0.2664	0.0861
Venus	53846-03-17 16:48 G	21387983.09	21387983.20	21387983.32	0.2642	0.1827
Venus	53854-03-15 07:26 G	21390902.69	21390902.81	21390902.92	0.2638	0.1875
Mercury	53855-01-16 10:48 G	21391209.84	21391209.95	21391210.05	0.2675	0.0474

Mercury	53857-07-23 00:43 G	21392128.41	21392128.53	21392128.66	0.2670	0.1595
Mercury	53868-01-19 04:48 G	21395960.60	21395960.70	21395960.80	0.2672	0.0884
Mercury	53881-01-20 22:34 G	21400711.36	21400711.44	21400711.51	0.2666	0.1959
Mercury	53888-01-14 21:22 G	21403261.30	21403261.39	21403261.49	0.2675	0.1441
Mercury	53890-07-20 23:31 G	21404179.33	21404179.48	21404179.63	0.2666	0.0596
Mercury	53901-01-17 15:36 G	21408012.05	21408012.15	21408012.26	0.2674	0.0198
Mercury	53903-07-25 07:41 G	21408930.74	21408930.82	21408930.90	0.2671	0.2276
Mercury	53914-01-20 09:36 G	21412762.80	21412762.90	21412763.00	0.2672	0.1018
Mercury	53921-01-13 08:10 G	21415312.80	21415312.84	21415312.89	0.2673	0.2418
Mercury	53923-07-19 23:02 G	21416230.43	21416230.46	21416230.49	0.2660	0.2606
Mercury	53927-01-23 03:22 G	21417513.58	21417513.64	21417513.69	0.2664	0.2291
Mercury	53934-01-16 02:24 G	21420063.50	21420063.60	21420063.69	0.2675	0.1255
Mercury	53936-07-22 06:14 G	21420981.60	21420981.76	21420981.92	0.2668	0.0057
Mercury	53947-01-18 20:38 G	21424814.25	21424814.36	21424814.47	0.2674	0.0080
Mercury	53949-07-25 14:38 G	21425733.07	21425733.11	21425733.15	0.2671	0.2578
Venus	53959-09-18 06:00 G	21429439.59	21429439.75	21429439.92	0.2683	0.0503
Mercury	53960-01-21 14:24 G	21429565.01	21429565.10	21429565.20	0.2670	0.1313
Mercury	53967-01-14 13:12 G	21432114.99	21432115.05	21432115.10	0.2674	0.2302
Mercury	53969-07-20 05:46 G	21433032.64	21433032.74	21433032.83	0.2662	0.2137
Mercury	53973-01-23 08:10 G	21434315.79	21434315.84	21434315.88	0.2663	0.2410
Mercury	53980-01-17 07:12 G	21436865.70	21436865.80	21436865.91	0.2675	0.0936
Mercury	53982-07-23 12:58 G	21437783.89	21437784.04	21437784.20	0.2668	0.0385
Mercury	53993-01-19 01:26 G	21441616.45	21441616.56	21441616.67	0.2674	0.0272

55TH MILLENNIUM CE

This is a list of transits visible from Moon in the 55th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	54006-01-21 19:26	G	21446367.22	21446367.31	21446367.39	0.2668	0.1522	
Mercury	54013-01-14 18:00	G	21448917.18	21448917.25	21448917.32	0.2674	0.1937	
Mercury	54015-07-21 12:14	G	21449834.89	21449835.01	21449835.13	0.2664	0.1623	
Mercury	54026-01-17 12:14	G	21453667.91	21453668.01	21453668.12	0.2675	0.0779	
Mercury	54028-07-23 19:55	G	21454586.18	21454586.33	21454586.47	0.2668	0.0964	
Mercury	54039-01-20 06:14	G	21458418.66	21458418.76	21458418.87	0.2674	0.0570	
Mercury	54052-01-23 00:14	G	21463169.43	21463169.51	21463169.59	0.2667	0.1718	
Mercury	54059-01-15 22:48	G	21465719.38	21465719.45	21465719.53	0.2674	0.1821	
Mercury	54061-07-21 18:43	G	21466637.15	21466637.28	21466637.42	0.2665	0.1312	
Mercury	54072-01-18 17:17	G	21470470.11	21470470.22	21470470.32	0.2676	0.0423	
Mercury	54074-07-25 02:53	G	21471388.49	21471388.62	21471388.75	0.2669	0.1426	
Mercury	54085-01-20 11:17	G	21475220.86	21475220.97	21475221.07	0.2672	0.0718	
Venus	54089-03-18 08:53	G	21476738.73	21476738.87	21476739.01	0.2641	0.1191	
Venus	54097-03-16 02:10	G	21479658.49	21479658.59	21479658.68	0.2647	0.2050	
Mercury	54098-01-23 05:02	G	21479971.64	21479971.71	21479971.78	0.2666	0.2004	
Mercury	54105-01-17 03:50	G	21482521.57	21482521.66	21482521.75	0.2675	0.1473	
Mercury	54107-07-24 01:26	G	21483439.41	21483439.56	21483439.71	0.2665	0.0683	
Mercury	54118-01-19 22:05	G	21487272.31	21487272.42	21487272.53	0.2676	0.0303	
Mercury	54120-07-26 09:50	G	21488190.80	21488190.91	21488191.02	0.2671	0.1888	
Mercury	54131-01-22 16:05	G	21492023.07	21492023.17	21492023.27	0.2671	0.1067	
Mercury	54138-01-15 14:38	G	21494573.08	21494573.11	21494573.14	0.2673	0.2545	
Mercury	54144-01-25 09:50	G	21496773.85	21496773.91	21496773.97	0.2666	0.2142	
Mercury	54151-01-18 08:53	G	21499323.77	21499323.87	21499323.96	0.2676	0.1283	
Mercury	54153-07-24 08:24	G	21500241.69	21500241.85	21500242.00	0.2666	0.0389	
Mercury	54164-01-21 02:53	G	21504074.51	21504074.62	21504074.73	0.2675	0.0057	
Mercury	54166-07-27 16:48	G	21504993.15	21504993.20	21504993.25	0.2672	0.2494	

Mercury	54177-01-22 21:07 G	21508825.28	21508825.38	21508825.47	0.2670	0.1184
Mercury	54184-01-16 19:26 G	21511375.26	21511375.31	21511375.37	0.2673	0.2276
Mercury	54186-07-22 07:41 G	21512292.76	21512292.82	21512292.87	0.2662	0.2476
Mercury	54190-01-25 14:24 G	21513576.06	21513576.10	21513576.14	0.2664	0.2454
Mercury	54197-01-18 13:41 G	21516125.97	21516126.07	21516126.17	0.2676	0.1025
Mercury	54199-07-25 15:07 G	21517043.98	21517044.13	21517044.29	0.2668	0.0307
Venus	54202-09-19 23:17 G	21518195.32	21518195.47	21518195.62	0.2694	0.0343
Mercury	54210-01-22 07:55 G	21520876.72	21520876.83	21520876.94	0.2674	0.0217
Mercury	54223-01-25 01:55 G	21525627.49	21525627.58	21525627.67	0.2670	0.1524
Mercury	54230-01-18 00:29 G	21528177.45	21528177.52	21528177.58	0.2674	0.2095
Mercury	54232-07-23 14:10 G	21529094.98	21529095.09	21529095.20	0.2663	0.1865
Mercury	54236-01-27 19:12 G	21530378.27	21530378.30	21530378.33	0.2662	0.2548
Mercury	54243-01-20 18:29 G	21532928.17	21532928.27	21532928.38	0.2676	0.0777
Mercury	54245-07-26 22:05 G	21533846.27	21533846.42	21533846.57	0.2669	0.0581
Mercury	54256-01-23 12:58 G	21537678.93	21537679.04	21537679.14	0.2673	0.0503
Mercury	54269-01-25 06:43 G	21542429.69	21542429.78	21542429.86	0.2669	0.1642
Mercury	54276-01-19 05:17 G	21544979.64	21544979.72	21544979.80	0.2676	0.1751
Mercury	54278-07-24 21:07 G	21545897.25	21545897.38	21545897.51	0.2664	0.1495
Mercury	54289-01-20 23:31 G	21549730.37	21549730.48	21549730.58	0.2676	0.0578
Mercury	54291-07-28 04:48 G	21550648.57	21550648.70	21550648.84	0.2670	0.1242
Mercury	54302-01-24 17:46 G	21554481.13	21554481.24	21554481.34	0.2673	0.0733
Mercury	54315-01-27 11:31 G	21559231.90	21559231.98	21559232.05	0.2667	0.1931
Mercury	54322-01-20 10:05 G	21561781.84	21561781.92	21561782.01	0.2676	0.1641
Mercury	54324-07-26 03:50 G	21562699.52	21562699.66	21562699.81	0.2666	0.1006
Venus	54332-03-21 21:07 G	21565495.26	21565495.38	21565495.49	0.2647	0.1706
Mercury	54335-01-23 04:34 G	21566532.58	21566532.69	21566532.80	0.2675	0.0259
Mercury	54337-07-29 11:46 G	21567450.87	21567450.99	21567451.12	0.2670	0.1568
Venus	54340-03-19 14:24 G	21568414.95	21568415.10	21568415.25	0.2643	0.1017
Mercury	54348-01-25 22:34 G	21571283.34	21571283.44	21571283.54	0.2672	0.0925
Mercury	54355-01-18 21:07 G	21573833.36	21573833.38	21573833.39	0.2674	0.2631

Mercury	54361-01-27 16:05 G	21576034.11	21576034.17	21576034.24	0.2664	0.2127
Mercury	54368-01-21 15:07 G	21578584.03	21578584.13	21578584.22	0.2676	0.1274
Mercury	54370-07-27 10:34 G	21579501.79	21579501.94	21579502.09	0.2667	0.0491
Mercury	54381-01-23 09:22 G	21583334.79	21583334.89	21583335.00	0.2675	0.0147
Mercury	54383-07-30 18:43 G	21584253.19	21584253.28	21584253.37	0.2670	0.2170
Mercury	54394-01-26 03:22 G	21588085.54	21588085.64	21588085.74	0.2671	0.1213
Mercury	54401-01-19 01:55 G	21590635.53	21590635.58	21590635.63	0.2675	0.2323
Mercury	54403-07-25 09:50 G	21591552.87	21591552.91	21591552.97	0.2662	0.2508
Mercury	54407-01-28 20:53 G	21592836.32	21592836.37	21592836.43	0.2664	0.2328
Mercury	54414-01-21 20:10 G	21595386.24	21595386.34	21595386.43	0.2676	0.1139
Mercury	54416-07-27 17:17 G	21596304.06	21596304.22	21596304.37	0.2668	0.0143
Mercury	54427-01-24 14:24 G	21600136.99	21600137.10	21600137.21	0.2675	0.0259
Mercury	54429-07-31 01:55 G	21601055.57	21601055.58	21601055.59	0.2671	0.2660
Mercury	54440-01-27 08:10 G	21604887.75	21604887.84	21604887.94	0.2669	0.1353
Venus	54445-09-21 08:10 G	21606951.68	21606951.84	21606952.01	0.2685	0.0105
Mercury	54447-01-20 06:43 G	21607437.71	21607437.78	21607437.84	0.2675	0.2132
Mercury	54449-07-25 16:34 G	21608355.11	21608355.19	21608355.27	0.2664	0.2266
Mercury	54453-01-29 01:41 G	21609638.55	21609638.57	21609638.59	0.2664	0.2586
Mercury	54460-01-23 00:58 G	21612188.44	21612188.54	21612188.65	0.2676	0.0803
Mercury	54462-07-29 00:00 G	21613106.35	21613106.50	21613106.66	0.2668	0.0476
Mercury	54473-01-24 19:12 G	21616939.19	21616939.30	21616939.41	0.2674	0.0361
Mercury	54486-01-27 13:12 G	21621689.96	21621690.05	21621690.13	0.2667	0.1702
Mercury	54493-01-20 11:31 G	21624239.91	21624239.98	21624240.06	0.2675	0.1877
Mercury	54495-07-26 23:02 G	21625157.34	21625157.46	21625157.59	0.2665	0.1615
Mercury	54506-01-24 06:00 G	21628990.64	21628990.75	21628990.86	0.2677	0.0608
Mercury	54508-07-30 07:12 G	21629908.65	21629908.80	21629908.94	0.2669	0.0809
Mercury	54519-01-27 00:00 G	21633741.40	21633741.50	21633741.61	0.2673	0.0710
Mercury	54532-01-29 18:00 G	21638492.17	21638492.25	21638492.33	0.2667	0.1794
Mercury	54539-01-22 16:34 G	21641042.10	21641042.19	21641042.28	0.2676	0.1607
Mercury	54541-07-28 06:00 G	21641959.61	21641959.75	21641959.88	0.2665	0.1359

Mercury	54552-01-25 10:48 G	21645792.84	21645792.95	21645793.06	0.2677	0.0354
Mercury	54554-07-31 13:55 G	21646710.95	21646711.08	21646711.21	0.2670	0.1494
Mercury	54565-01-27 05:02 G	21650543.61	21650543.71	21650543.81	0.2671	0.0868
Mercury	54572-01-21 03:07 G	21653093.61	21653093.63	21653093.66	0.2674	0.2596
Venus	54575-03-23 15:50 G	21654251.03	21654251.16	21654251.28	0.2638	0.1712
Mercury	54578-01-29 22:34 G	21655294.38	21655294.44	21655294.51	0.2667	0.2137
Venus	54583-03-21 06:14 G	21657170.68	21657170.76	21657170.83	0.2643	0.2298
Mercury	54585-01-22 21:36 G	21657844.31	21657844.40	21657844.49	0.2677	0.1421
Mercury	54587-07-29 12:43 G	21658761.88	21658762.03	21658762.18	0.2666	0.0722
Mercury	54598-01-25 15:50 G	21662595.05	21662595.16	21662595.27	0.2676	0.0127
Mercury	54600-08-01 20:53 G	21663513.25	21663513.37	21663513.49	0.2671	0.1767
Mercury	54611-01-29 09:50 G	21667345.81	21667345.91	21667346.01	0.2670	0.1138
Mercury	54618-01-22 08:10 G	21669895.80	21669895.84	21669895.88	0.2674	0.2475
Mercury	54624-02-01 03:22 G	21672096.58	21672096.64	21672096.70	0.2665	0.2238
Mercury	54631-01-25 02:24 G	21674646.50	21674646.60	21674646.70	0.2677	0.1082
Mercury	54633-07-30 19:41 G	21675564.16	21675564.32	21675564.47	0.2667	0.0341
Mercury	54644-01-27 20:38 G	21679397.25	21679397.36	21679397.47	0.2675	0.0112
Mercury	54646-08-03 03:36 G	21680315.59	21680315.65	21680315.71	0.2671	0.2441
Mercury	54657-01-29 14:38 G	21684148.02	21684148.11	21684148.21	0.2670	0.1356
Mercury	54664-01-23 13:12 G	21686697.98	21686698.05	21686698.11	0.2675	0.2110
Mercury	54666-07-28 18:43 G	21687615.21	21687615.28	21687615.35	0.2662	0.2350
Mercury	54670-02-01 08:10 G	21688898.81	21688898.84	21688898.87	0.2663	0.2518
Mercury	54677-01-25 07:26 G	21691448.71	21691448.81	21691448.91	0.2677	0.0966
Mercury	54679-08-01 02:24 G	21692366.45	21692366.60	21692366.76	0.2669	0.0170
Venus	54688-09-22 21:36 G	21695707.24	21695707.40	21695707.55	0.2689	0.0474
Mercury	54690-01-28 01:41 G	21696199.46	21696199.57	21696199.68	0.2674	0.0426
Mercury	54703-01-31 19:26 G	21700950.22	21700950.31	21700950.40	0.2670	0.1557
Mercury	54710-01-24 18:00 G	21703500.18	21703500.25	21703500.33	0.2677	0.1970
Mercury	54712-07-30 01:41 G	21704417.47	21704417.57	21704417.67	0.2663	0.2016
Mercury	54723-01-27 12:14 G	21708250.90	21708251.01	21708251.12	0.2677	0.0600

Mercury	54725-08-02 09:07 G	21709168.73	21709168.88	21709169.03	0.2669	0.0653
Mercury	54736-01-30 06:29 G	21713001.67	21713001.77	21713001.88	0.2674	0.0547
Mercury	54749-02-01 00:14 G	21717752.43	21717752.51	21717752.59	0.2668	0.1832
Mercury	54756-01-25 23:02 G	21720302.37	21720302.46	21720302.54	0.2677	0.1650
Mercury	54758-07-31 08:10 G	21721219.71	21721219.84	21721219.97	0.2665	0.1385
Mercury	54769-01-27 17:17 G	21725053.11	21725053.22	21725053.33	0.2676	0.0457
Mercury	54771-08-03 15:50 G	21725971.02	21725971.16	21725971.30	0.2669	0.1050
Mercury	54782-01-30 11:17 G	21729803.87	21729803.97	21729804.08	0.2673	0.0905
Mercury	54795-02-02 05:02 G	21734554.64	21734554.71	21734554.79	0.2666	0.1957
Mercury	54802-01-26 03:50 G	21737104.57	21737104.66	21737104.75	0.2677	0.1475
Mercury	54804-07-31 14:53 G	21738021.98	21738022.12	21738022.26	0.2666	0.1144
Mercury	54815-01-28 22:19 G	21741855.32	21741855.43	21741855.53	0.2676	0.0164
Mercury	54817-08-03 22:48 G	21742773.33	21742773.45	21742773.57	0.2669	0.1655
Venus	54818-03-25 23:17 G	21743007.37	21743007.47	21743007.57	0.2650	0.1969
Venus	54826-03-23 18:43 G	21745927.13	21745927.28	21745927.43	0.2648	0.0537
Mercury	54828-01-31 16:19 G	21746606.08	21746606.18	21746606.28	0.2672	0.1004
Mercury	54835-01-24 14:38 G	21749156.06	21749156.11	21749156.15	0.2676	0.2432
Mercury	54841-02-02 09:50 G	21751356.86	21751356.91	21751356.97	0.2665	0.2301
Mercury	54848-01-27 08:38 G	21753906.77	21753906.86	21753906.96	0.2677	0.1207
Mercury	54850-08-01 21:36 G	21754824.24	21754824.40	21754824.55	0.2667	0.0474
Mercury	54861-01-29 03:07 G	21758657.52	21758657.63	21758657.74	0.2676	0.0047
Mercury	54863-08-05 06:00 G	21759575.65	21759575.75	21759575.85	0.2670	0.1999
Mercury	54874-01-31 21:07 G	21763408.28	21763408.38	21763408.47	0.2670	0.1340
Mercury	54881-01-24 19:26 G	21765958.25	21765958.31	21765958.36	0.2676	0.2284
Mercury	54883-07-30 21:07 G	21766875.35	21766875.38	21766875.42	0.2663	0.2583
Mercury	54887-02-03 14:38 G	21768159.07	21768159.11	21768159.16	0.2665	0.2386
Mercury	54894-01-27 13:41 G	21770708.97	21770709.07	21770709.17	0.2677	0.0934
Mercury	54896-08-02 04:19 G	21771626.53	21771626.68	21771626.84	0.2667	0.0217
Mercury	54907-01-31 07:55 G	21775459.72	21775459.83	21775459.94	0.2675	0.0316
Mercury	54920-02-03 01:55 G	21780210.49	21780210.58	21780210.67	0.2669	0.1486

Mercury	54927-01-27 00:14 G	21782760.44	21782760.51	21782760.59	0.2676	0.1943
Mercury	54929-08-01 03:50 G	21783677.57	21783677.66	21783677.74	0.2664	0.2193
Venus	54931-09-26 08:10 G	21784463.69	21784463.84	21784464.00	0.2690	0.0053
Mercury	54940-01-29 18:43 G	21787511.18	21787511.28	21787511.39	0.2677	0.0750
Mercury	54942-08-04 11:17 G	21788428.82	21788428.97	21788429.12	0.2668	0.0447
Mercury	54953-01-31 12:58 G	21792261.93	21792262.04	21792262.14	0.2674	0.0554
Mercury	54966-02-03 06:43 G	21797012.70	21797012.78	21797012.86	0.2668	0.1768
Mercury	54973-01-27 05:17 G	21799562.64	21799562.72	21799562.80	0.2676	0.1807
Mercury	54975-08-02 10:19 G	21800479.82	21800479.93	21800480.05	0.2664	0.1748
Mercury	54986-01-29 23:31 G	21804313.37	21804313.48	21804313.59	0.2678	0.0423
Mercury	54988-08-04 18:14 G	21805231.12	21805231.26	21805231.41	0.2669	0.0829
Mercury	54999-02-01 17:46 G	21809064.14	21809064.24	21809064.35	0.2673	0.0745

56TH MILLENNIUM CE

This is a list of transits visible from Moon in the 56th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	55012-02-05 11:31 G		21813814.91	21813814.98	21813815.06	0.2668	0.1955	
Mercury	55019-01-29 10:19 G		21816364.83	21816364.93	21816365.02	0.2677	0.1446	
Mercury	55021-08-03 17:02 G		21817282.08	21817282.21	21817282.35	0.2665	0.1244	
Mercury	55032-02-01 04:34 G		21821115.58	21821115.69	21821115.80	0.2677	0.0303	
Mercury	55034-08-07 01:12 G		21822033.41	21822033.55	21822033.68	0.2670	0.1352	
Mercury	55045-02-02 22:48 G		21825866.35	21825866.45	21825866.55	0.2672	0.1069	
Mercury	55052-01-27 20:53 G		21828416.33	21828416.37	21828416.40	0.2675	0.2496	

Mercury	55058-02-05 16:19 G	21830617.12	21830617.18	21830617.24	0.2667	0.2161
Venus	55061-03-28 00:29 G	21831763.40	21831763.52	21831763.63	0.2638	0.1909
Mercury	55065-01-29 15:07 G	21833167.04	21833167.13	21833167.23	0.2678	0.1309
Mercury	55067-08-05 00:00 G	21834084.36	21834084.50	21834084.65	0.2666	0.0877
Venus	55069-03-25 12:29 G	21834682.91	21834683.02	21834683.14	0.2640	0.1873
Mercury	55078-02-01 09:22 G	21837917.78	21837917.89	21837918.00	0.2676	0.0107
Mercury	55080-08-07 07:41 G	21838835.71	21838835.82	21838835.94	0.2670	0.1808
Mercury	55091-02-04 03:36 G	21842668.55	21842668.65	21842668.75	0.2672	0.1180
Mercury	55098-01-28 01:41 G	21845218.52	21845218.57	21845218.62	0.2676	0.2306
Mercury	55104-02-07 21:07 G	21847419.33	21847419.38	21847419.42	0.2665	0.2423
Mercury	55111-01-31 20:10 G	21849969.23	21849969.34	21849969.44	0.2678	0.0986
Mercury	55113-08-06 06:43 G	21850886.63	21850886.78	21850886.93	0.2668	0.0244
Mercury	55124-02-03 14:24 G	21854719.99	21854720.10	21854720.21	0.2675	0.0214
Mercury	55126-08-09 14:38 G	21855638.03	21855638.11	21855638.19	0.2670	0.2244
Mercury	55137-02-05 08:24 G	21859470.76	21859470.85	21859470.94	0.2671	0.1525
Mercury	55144-01-30 06:43 G	21862020.71	21862020.78	21862020.85	0.2677	0.2060
Mercury	55146-08-04 06:14 G	21862937.68	21862937.76	21862937.83	0.2662	0.2309
Mercury	55150-02-08 01:55 G	21864221.55	21864221.58	21864221.60	0.2663	0.2543
Mercury	55157-02-01 00:58 G	21866771.44	21866771.54	21866771.64	0.2678	0.0809
Mercury	55159-08-07 13:26 G	21867688.91	21867689.06	21867689.22	0.2668	0.0007
Mercury	55170-02-03 19:26 G	21871522.20	21871522.31	21871522.41	0.2675	0.0543
Venus	55174-09-27 23:02 G	21873219.31	21873219.46	21873219.62	0.2682	0.0922
Mercury	55183-02-06 13:12 G	21876272.96	21876273.05	21876273.13	0.2669	0.1622
Mercury	55190-01-30 11:31 G	21878822.90	21878822.98	21878823.06	0.2678	0.1779
Mercury	55192-08-04 12:58 G	21879739.94	21879740.04	21879740.14	0.2664	0.2022
Mercury	55203-02-02 06:00 G	21883573.64	21883573.75	21883573.86	0.2677	0.0532
Mercury	55205-08-07 20:10 G	21884491.19	21884491.34	21884491.49	0.2668	0.0683
Mercury	55216-02-05 00:14 G	21888324.40	21888324.51	21888324.61	0.2674	0.0685
Mercury	55229-02-06 18:00 G	21893075.17	21893075.25	21893075.32	0.2667	0.1949
Mercury	55236-01-31 16:34 G	21895625.10	21895625.19	21895625.27	0.2678	0.1617

Mercury	55238-08-05 19:26 G	21896542.19	21896542.31	21896542.44	0.2666	0.1458
Mercury	55249-02-02 11:02 G	21900375.85	21900375.96	21900376.07	0.2677	0.0273
Mercury	55251-08-09 03:07 G	21901293.49	21901293.63	21901293.77	0.2668	0.0968
Mercury	55262-02-05 05:02 G	21905126.61	21905126.71	21905126.81	0.2673	0.0962
Mercury	55269-01-29 03:07 G	21907676.62	21907676.63	21907676.64	0.2677	0.2656
Mercury	55275-02-07 22:48 G	21909877.38	21909877.45	21909877.52	0.2666	0.2077
Mercury	55282-01-31 21:22 G	21912427.30	21912427.39	21912427.49	0.2678	0.1280
Mercury	55284-08-06 02:10 G	21913344.45	21913344.59	21913344.73	0.2666	0.1094
Mercury	55295-02-03 15:50 G	21917178.05	21917178.16	21917178.27	0.2677	0.0091
Mercury	55297-08-09 10:05 G	21918095.80	21918095.92	21918096.04	0.2669	0.1629
Venus	55304-03-30 00:14 G	21920519.43	21920519.51	21920519.58	0.2651	0.2261
Mercury	55308-02-07 09:50 G	21921928.81	21921928.91	21921929.01	0.2671	0.1183
Venus	55312-03-27 20:38 G	21923439.22	21923439.36	21923439.50	0.2652	0.0865
Mercury	55315-01-31 07:55 G	21924478.78	21924478.83	21924478.89	0.2677	0.2295
Mercury	55321-02-09 03:36 G	21926679.60	21926679.65	21926679.70	0.2665	0.2366
Mercury	55328-02-03 02:24 G	21929229.50	21929229.60	21929229.70	0.2678	0.1133
Mercury	55330-08-08 08:53 G	21930146.72	21930146.87	21930147.02	0.2666	0.0608
Mercury	55341-02-04 20:38 G	21933980.25	21933980.36	21933980.47	0.2677	0.0235
Mercury	55343-08-11 17:02 G	21934898.11	21934898.21	21934898.31	0.2670	0.1992
Mercury	55354-02-07 14:38 G	21938731.02	21938731.11	21938731.21	0.2670	0.1375
Mercury	55361-01-31 12:58 G	21941280.98	21941281.04	21941281.10	0.2677	0.2174
Mercury	55367-02-10 08:24 G	21943481.82	21943481.85	21943481.88	0.2665	0.2532
Mercury	55374-02-03 07:26 G	21946031.70	21946031.81	21946031.91	0.2678	0.0770
Mercury	55376-08-08 15:50 G	21946949.00	21946949.16	21946949.31	0.2667	0.0118
Mercury	55387-02-06 01:41 G	21950782.46	21950782.57	21950782.68	0.2675	0.0370
Mercury	55389-08-11 23:46 G	21951700.45	21951700.49	21951700.54	0.2670	0.2531
Mercury	55400-02-08 19:41 G	21955533.23	21955533.32	21955533.40	0.2669	0.1676
Mercury	55407-02-02 17:46 G	21958083.17	21958083.24	21958083.32	0.2677	0.1839
Mercury	55409-08-07 14:53 G	21959000.03	21959000.12	21959000.22	0.2663	0.2097
Venus	55409-10-02 11:02 G	21959055.92	21959055.96	21959056.00	0.2694	0.2581

Venus	55417-09-30 05:31 G	21961975.58	21961975.73	21961975.88	0.2693	0.0061
Mercury	55420-02-05 12:14 G	21962833.91	21962834.01	21962834.12	0.2678	0.0653
Mercury	55422-08-10 22:34 G	21963751.29	21963751.44	21963751.60	0.2668	0.0288
Mercury	55433-02-07 06:29 G	21967584.67	21967584.77	21967584.88	0.2674	0.0719
Mercury	55446-02-10 00:29 G	21972335.44	21972335.52	21972335.60	0.2669	0.1795
Mercury	55453-02-02 22:48 G	21974885.37	21974885.45	21974885.54	0.2678	0.1638
Mercury	55455-08-08 21:36 G	21975802.29	21975802.40	21975802.51	0.2664	0.1860
Mercury	55466-02-05 17:17 G	21979636.11	21979636.22	21979636.32	0.2678	0.0331
Mercury	55468-08-11 05:17 G	21980553.58	21980553.72	21980553.87	0.2669	0.0909
Mercury	55479-02-08 11:31 G	21984386.87	21984386.98	21984387.08	0.2673	0.0837
Mercury	55486-02-01 09:22 G	21986936.87	21986936.89	21986936.91	0.2675	0.2632
Mercury	55492-02-11 05:17 G	21989137.65	21989137.72	21989137.78	0.2668	0.2120
Mercury	55499-02-04 03:50 G	21991687.57	21991687.66	21991687.75	0.2679	0.1389
Mercury	55501-08-10 04:34 G	21992604.55	21992604.69	21992604.83	0.2665	0.1191
Mercury	55512-02-07 22:05 G	21996438.31	21996438.42	21996438.53	0.2677	0.0145
Mercury	55514-08-13 12:00 G	21997355.87	21997356.00	21997356.14	0.2669	0.1163
Mercury	55525-02-09 16:19 G	22001189.08	22001189.18	22001189.28	0.2672	0.1173
Mercury	55532-02-03 14:24 G	22003739.06	22003739.10	22003739.14	0.2676	0.2463
Mercury	55538-02-12 09:50 G	22005939.85	22005939.91	22005939.97	0.2666	0.2210
Mercury	55545-02-05 08:38 G	22008489.76	22008489.86	22008489.96	0.2679	0.1126
Venus	55547-04-02 09:07 G	22009275.81	22009275.88	22009275.94	0.2642	0.2402
Mercury	55547-08-11 11:31 G	22009406.83	22009406.98	22009407.12	0.2667	0.0898
Venus	55555-03-30 21:22 G	22012195.23	22012195.39	22012195.55	0.2640	0.0756
Mercury	55558-02-08 03:07 G	22013240.52	22013240.63	22013240.74	0.2676	0.0128
Mercury	55560-08-13 18:58 G	22014158.18	22014158.29	22014158.40	0.2669	0.1845
Mercury	55571-02-10 21:07 G	22017991.29	22017991.38	22017991.48	0.2672	0.1298
Mercury	55578-02-03 19:12 G	22020541.24	22020541.30	22020541.37	0.2678	0.2111
Mercury	55584-02-13 14:38 G	22022742.08	22022742.11	22022742.14	0.2664	0.2531
Mercury	55591-02-06 13:41 G	22025291.96	22025292.07	22025292.17	0.2679	0.0948
Mercury	55593-08-11 18:00 G	22026209.10	22026209.25	22026209.40	0.2667	0.0316

Mercury	55604-02-09 08:10 G	22030042.73	22030042.84	22030042.94	0.2676	0.0403
Mercury	55606-08-15 01:55 G	22030960.49	22030960.58	22030960.67	0.2669	0.2147
Mercury	55617-02-11 01:55 G	22034793.49	22034793.58	22034793.67	0.2670	0.1580
Mercury	55624-02-05 00:14 G	22037343.44	22037343.51	22037343.58	0.2679	0.2000
Mercury	55626-08-09 17:31 G	22038260.18	22038260.23	22038260.29	0.2663	0.2449
Mercury	55630-02-13 19:26 G	22039544.30	22039544.31	22039544.32	0.2664	0.2646
Mercury	55637-02-06 18:29 G	22042094.17	22042094.27	22042094.38	0.2678	0.0618
Mercury	55639-08-13 00:43 G	22043011.37	22043011.53	22043011.68	0.2667	0.0063
Mercury	55650-02-09 12:58 G	22046844.93	22046845.04	22046845.15	0.2675	0.0566
Venus	55660-10-01 02:38 G	22050731.46	22050731.61	22050731.77	0.2678	0.1097
Mercury	55663-02-12 06:43 G	22051595.70	22051595.78	22051595.86	0.2668	0.1787
Mercury	55670-02-05 05:02 G	22054145.62	22054145.71	22054145.80	0.2679	0.1633
Mercury	55672-08-10 00:14 G	22055062.40	22055062.51	22055062.62	0.2665	0.1890
Mercury	55683-02-07 23:31 G	22058896.38	22058896.48	22058896.59	0.2678	0.0478
Mercury	55685-08-13 07:26 G	22059813.66	22059813.81	22059813.96	0.2667	0.0548
Mercury	55696-02-10 17:46 G	22063647.14	22063647.24	22063647.34	0.2675	0.0867
Mercury	55709-02-13 11:31 G	22068397.91	22068397.98	22068398.06	0.2667	0.1976
Mercury	55716-02-07 10:05 G	22070947.83	22070947.92	22070948.01	0.2678	0.1511
Mercury	55718-08-12 06:43 G	22071864.66	22071864.78	22071864.90	0.2665	0.1625
Mercury	55729-02-09 04:34 G	22075698.58	22075698.69	22075698.80	0.2678	0.0107
Mercury	55731-08-15 14:38 G	22076615.96	22076616.11	22076616.25	0.2668	0.1075
Mercury	55742-02-11 22:34 G	22080449.34	22080449.44	22080449.55	0.2672	0.1003
Mercury	55749-02-04 20:38 G	22082999.32	22082999.36	22082999.39	0.2678	0.2490
Mercury	55755-02-14 16:19 G	22085200.13	22085200.18	22085200.24	0.2667	0.2255
Mercury	55762-02-07 15:07 G	22087750.03	22087750.13	22087750.22	0.2679	0.1175
Mercury	55764-08-12 13:26 G	22088666.92	22088667.06	22088667.20	0.2665	0.0996
Mercury	55775-02-10 09:22 G	22092500.78	22092500.89	22092501.00	0.2677	0.0053
Mercury	55777-08-15 21:22 G	22093418.26	22093418.39	22093418.52	0.2668	0.1429
Mercury	55788-02-13 03:36 G	22097251.55	22097251.65	22097251.74	0.2671	0.1346
Venus	55790-04-03 01:55 G	22098031.48	22098031.58	22098031.68	0.2647	0.2053

Mercury	55795-02-06 01:26 G	22099801.50	22099801.56	22099801.62	0.2678	0.2255
Venus	55798-03-31 20:38 G	22100951.24	22100951.36	22100951.49	0.2652	0.1417
Mercury	55801-02-15 21:07 G	22102002.33	22102002.38	22102002.43	0.2666	0.2384
Mercury	55808-02-09 20:10 G	22104552.23	22104552.34	22104552.44	0.2679	0.0974
Mercury	55810-08-14 20:10 G	22105469.20	22105469.34	22105469.49	0.2666	0.0726
Mercury	55821-02-11 14:24 G	22109302.99	22109303.10	22109303.21	0.2676	0.0351
Mercury	55823-08-18 04:05 G	22110220.57	22110220.67	22110220.76	0.2669	0.2049
Mercury	55834-02-14 08:24 G	22114053.76	22114053.85	22114053.94	0.2670	0.1443
Mercury	55841-02-07 06:29 G	22116603.69	22116603.77	22116603.84	0.2678	0.1980
Mercury	55854-02-10 00:58 G	22121354.43	22121354.54	22121354.65	0.2679	0.0722
Mercury	55856-08-15 03:07 G	22122271.48	22122271.63	22122271.79	0.2667	0.0080
Mercury	55867-02-12 19:12 G	22126105.19	22126105.30	22126105.41	0.2675	0.0514
Mercury	55869-08-18 10:48 G	22127022.88	22127022.95	22127023.02	0.2669	0.2322
Mercury	55880-02-15 13:12 G	22130855.97	22130856.05	22130856.13	0.2670	0.1787
Mercury	55887-02-08 11:31 G	22133405.90	22133405.98	22133406.06	0.2679	0.1801
Mercury	55889-08-13 02:24 G	22134322.52	22134322.60	22134322.69	0.2663	0.2160
Venus	55895-10-06 08:24 G	22136567.80	22136567.85	22136567.90	0.2690	0.2508
Mercury	55900-02-11 05:46 G	22138156.64	22138156.74	22138156.85	0.2679	0.0476
Mercury	55902-08-17 10:05 G	22139073.76	22139073.92	22139074.07	0.2668	0.0239
Venus	55903-10-05 02:24 G	22139487.45	22139487.60	22139487.75	0.2692	0.0566
Mercury	55913-02-14 00:14 G	22142907.40	22142907.51	22142907.61	0.2674	0.0774
Mercury	55926-02-16 18:00 G	22147658.17	22147658.25	22147658.32	0.2669	0.1896
Mercury	55933-02-09 16:19 G	22150208.09	22150208.18	22150208.28	0.2680	0.1448
Mercury	55935-08-15 09:22 G	22151124.77	22151124.89	22151125.00	0.2664	0.1746
Mercury	55946-02-12 10:48 G	22154958.84	22154958.95	22154959.06	0.2678	0.0277
Mercury	55948-08-17 16:34 G	22155876.04	22155876.19	22155876.34	0.2668	0.0827
Mercury	55959-02-15 05:02 G	22159709.61	22159709.71	22159709.81	0.2673	0.1008
Mercury	55966-02-08 02:53 G	22162259.58	22162259.62	22162259.66	0.2677	0.2486
Mercury	55972-02-17 22:48 G	22164460.38	22164460.45	22164460.51	0.2667	0.2170
Mercury	55979-02-10 21:22 G	22167010.29	22167010.39	22167010.48	0.2680	0.1336

Mercury	55981-08-15 16:05 G	22167927.04	22167927.17	22167927.30	0.2666	0.1334
Mercury	55992-02-13 15:50 G	22171761.05	22171761.16	22171761.27	0.2677	0.0068
Mercury	55994-08-18 23:31 G	22172678.34	22172678.48	22172678.61	0.2668	0.1187

57TH MILLENNIUM CE

This is a list of transits visible from Moon in the 57th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	56005-02-15 09:50 G		22176511.81	22176511.91	22176512.01	0.2673	0.1198	
Mercury	56012-02-09 07:55 G		22179061.78	22179061.83	22179061.88	0.2679	0.2344	
Mercury	56018-02-18 03:36 G		22181262.60	22181262.65	22181262.69	0.2665	0.2366	
Mercury	56025-02-11 02:10 G		22183812.49	22183812.59	22183812.70	0.2679	0.0974	
Mercury	56027-08-16 22:34 G		22184729.30	22184729.44	22184729.59	0.2666	0.0795	
Mercury	56038-02-13 20:38 G		22188563.25	22188563.36	22188563.47	0.2676	0.0208	
Mercury	56040-08-19 06:29 G		22189480.65	22189480.77	22189480.88	0.2667	0.1705	
Venus	56041-04-03 06:00 G		22189707.58	22189707.75	22189707.91	0.2644	0.0041	
Mercury	56051-02-16 14:38 G		22193314.02	22193314.11	22193314.20	0.2671	0.1487	
Mercury	56058-02-09 12:43 G		22195863.96	22195864.03	22195864.10	0.2680	0.2034	
Mercury	56064-02-19 08:24 G		22198064.82	22198064.85	22198064.87	0.2665	0.2562	
Mercury	56071-02-12 07:12 G		22200614.70	22200614.80	22200614.91	0.2679	0.0835	
Mercury	56073-08-17 05:17 G		22201531.57	22201531.72	22201531.87	0.2666	0.0490	
Mercury	56084-02-15 01:41 G		22205365.46	22205365.57	22205365.67	0.2676	0.0546	
Mercury	56086-08-20 13:26 G		22206282.97	22206283.06	22206283.14	0.2667	0.2231	
Mercury	56097-02-16 19:26 G		22210116.23	22210116.31	22210116.40	0.2669	0.1608	

Mercury	56104-02-11 17:46 G	22212666.16	22212666.24	22212666.31	0.2680	0.1843
Mercury	56106-08-16 05:17 G	22213582.67	22213582.72	22213582.76	0.2664	0.2506
Mercury	56117-02-13 12:14 G	22217416.90	22217417.01	22217417.12	0.2679	0.0502
Mercury	56119-08-19 12:00 G	22218333.85	22218334.00	22218334.16	0.2666	0.0158
Mercury	56130-02-16 06:29 G	22222167.66	22222167.77	22222167.88	0.2675	0.0639
Mercury	56132-08-21 19:55 G	22223085.30	22223085.33	22223085.37	0.2668	0.2581
Mercury	56143-02-19 00:29 G	22226918.44	22226918.52	22226918.59	0.2668	0.1948
Venus	56146-10-06 06:43 G	22228243.61	22228243.78	22228243.94	0.2678	0.0628
Mercury	56150-02-11 22:34 G	22229468.35	22229468.44	22229468.53	0.2679	0.1587
Mercury	56152-08-16 11:46 G	22230384.88	22230384.99	22230385.09	0.2664	0.1890
Mercury	56163-02-14 17:17 G	22234219.11	22234219.22	22234219.33	0.2679	0.0323
Mercury	56165-08-19 19:12 G	22235136.15	22235136.30	22235136.45	0.2667	0.0437
Mercury	56176-02-17 11:17 G	22238969.87	22238969.97	22238970.08	0.2674	0.0981
Mercury	56183-02-10 09:07 G	22241519.88	22241519.88	22241519.88	0.2679	0.2670
Mercury	56189-02-19 05:17 G	22243720.65	22243720.72	22243720.79	0.2667	0.2035
Mercury	56196-02-13 03:36 G	22246270.55	22246270.65	22246270.75	0.2680	0.1306
Mercury	56198-08-17 18:14 G	22247187.14	22247187.26	22247187.39	0.2664	0.1614
Mercury	56209-02-15 22:05 G	22251021.31	22251021.42	22251021.53	0.2679	0.0071
Mercury	56211-08-22 01:55 G	22251938.44	22251938.58	22251938.72	0.2667	0.1101
Mercury	56222-02-18 16:19 G	22255772.08	22255772.18	22255772.28	0.2672	0.1136
Mercury	56229-02-11 13:55 G	22258322.03	22258322.08	22258322.14	0.2678	0.2314
Mercury	56235-02-21 09:50 G	22260522.87	22260522.91	22260522.96	0.2667	0.2372
Mercury	56242-02-14 08:38 G	22263072.76	22263072.86	22263072.96	0.2680	0.1130
Mercury	56244-08-19 01:12 G	22263989.41	22263989.55	22263989.69	0.2665	0.1041
Mercury	56255-02-17 02:53 G	22267823.51	22267823.62	22267823.73	0.2678	0.0206
Mercury	56257-08-22 08:38 G	22268740.73	22268740.86	22268740.99	0.2668	0.1360
Mercury	56268-02-19 21:07 G	22272574.29	22272574.38	22272574.47	0.2671	0.1398
Mercury	56275-02-12 18:58 G	22275124.23	22275124.29	22275124.35	0.2679	0.2189
Venus	56276-04-07 06:43 G	22275543.67	22275543.78	22275543.90	0.2643	0.1894
Mercury	56281-02-21 14:38 G	22277325.07	22277325.11	22277325.15	0.2666	0.2468

Venus	56284-04-04 22:05 G	22278463.29	22278463.42	22278463.56	0.2650	0.1206
Mercury	56288-02-15 13:26 G	22279874.96	22279875.06	22279875.17	0.2680	0.0790
Mercury	56290-08-20 08:10 G	22280791.69	22280791.84	22280791.98	0.2666	0.0621
Mercury	56301-02-18 07:55 G	22284625.72	22284625.83	22284625.94	0.2676	0.0375
Mercury	56303-08-24 15:07 G	22285543.03	22285543.13	22285543.24	0.2667	0.1971
Mercury	56314-02-21 01:55 G	22289376.49	22289376.58	22289376.67	0.2671	0.1608
Mercury	56321-02-14 00:00 G	22291926.42	22291926.50	22291926.58	0.2680	0.1826
Mercury	56323-08-19 07:26 G	22292842.78	22292842.81	22292842.85	0.2662	0.2569
Mercury	56334-02-16 18:29 G	22296677.16	22296677.27	22296677.38	0.2680	0.0670
Mercury	56336-08-21 14:38 G	22297593.96	22297594.11	22297594.26	0.2667	0.0203
Mercury	56347-02-19 12:58 G	22301427.93	22301428.04	22301428.14	0.2675	0.0708
Mercury	56349-08-24 22:19 G	22302345.35	22302345.43	22302345.50	0.2667	0.2337
Mercury	56360-02-22 06:43 G	22306178.70	22306178.78	22306178.86	0.2670	0.1805
Mercury	56367-02-15 05:02 G	22308728.62	22308728.71	22308728.79	0.2681	0.1682
Mercury	56369-08-19 14:24 G	22309645.02	22309645.10	22309645.17	0.2663	0.2271
Mercury	56380-02-17 23:31 G	22313479.37	22313479.48	22313479.58	0.2679	0.0328
Venus	56381-10-10 08:10 G	22314079.79	22314079.84	22314079.90	0.2684	0.2502
Mercury	56382-08-22 21:22 G	22314396.23	22314396.39	22314396.54	0.2667	0.0324
Venus	56389-10-07 23:46 G	22316999.37	22316999.49	22316999.62	0.2688	0.1482
Mercury	56393-02-19 17:46 G	22318230.14	22318230.24	22318230.35	0.2674	0.0814
Mercury	56406-02-22 11:31 G	22322980.91	22322980.98	22322981.05	0.2668	0.2075
Mercury	56413-02-15 09:50 G	22325530.82	22325530.91	22325531.01	0.2681	0.1364
Mercury	56415-08-20 21:07 G	22326447.26	22326447.38	22326447.49	0.2665	0.1639
Mercury	56426-02-18 04:34 G	22330281.58	22330281.69	22330281.80	0.2678	0.0194
Mercury	56428-08-23 04:05 G	22331198.52	22331198.67	22331198.82	0.2667	0.0655
Mercury	56439-02-20 22:34 G	22335032.34	22335032.44	22335032.54	0.2674	0.1165
Mercury	56446-02-13 20:24 G	22337582.31	22337582.35	22337582.39	0.2680	0.2449
Mercury	56452-02-23 16:19 G	22339783.12	22339783.18	22339783.24	0.2666	0.2184
Mercury	56459-02-16 14:53 G	22342333.02	22342333.12	22342333.22	0.2680	0.1184
Mercury	56461-08-21 03:36 G	22343249.53	22343249.65	22343249.78	0.2665	0.1408

Mercury	56472-02-19 09:22 G	22347083.78	22347083.89	22347084.00	0.2677	0.0165
Mercury	56474-08-24 10:48 G	22348000.82	22348000.95	22348001.09	0.2666	0.1284
Mercury	56485-02-21 03:22 G	22351834.55	22351834.64	22351834.74	0.2672	0.1259
Mercury	56492-02-15 01:12 G	22354384.49	22354384.55	22354384.62	0.2680	0.2150
Mercury	56498-02-23 21:07 G	22356585.35	22356585.38	22356585.41	0.2665	0.2522
Mercury	56505-02-17 19:55 G	22359135.22	22359135.33	22359135.43	0.2680	0.0921
Mercury	56507-08-23 10:05 G	22360051.78	22360051.92	22360052.07	0.2665	0.0782
Mercury	56518-02-20 14:24 G	22363885.99	22363886.10	22363886.21	0.2677	0.0335
Mercury	56520-08-25 18:00 G	22364803.12	22364803.25	22364803.37	0.2666	0.1573
Venus	56527-04-08 11:31 G	22367219.83	22367219.98	22367220.14	0.2650	0.0120
Mercury	56531-02-23 08:10 G	22368636.76	22368636.84	22368636.93	0.2670	0.1589
Mercury	56538-02-16 06:14 G	22371186.69	22371186.76	22371186.83	0.2680	0.2003
Mercury	56544-02-26 01:55 G	22373387.56	22373387.58	22373387.60	0.2665	0.2607
Mercury	56551-02-19 00:58 G	22375937.43	22375937.54	22375937.64	0.2680	0.0640
Mercury	56553-08-23 17:02 G	22376854.06	22376854.21	22376854.36	0.2665	0.0490
Mercury	56564-02-21 19:12 G	22380688.19	22380688.30	22380688.40	0.2677	0.0590
Mercury	56566-08-27 00:29 G	22381605.44	22381605.52	22381605.61	0.2667	0.2233
Mercury	56577-02-23 13:12 G	22385438.96	22385439.05	22385439.13	0.2669	0.1730
Mercury	56584-02-17 11:02 G	22387988.88	22387988.96	22387989.05	0.2680	0.1658
Mercury	56586-08-21 16:48 G	22388905.13	22388905.20	22388905.26	0.2663	0.2395
Mercury	56597-02-19 05:46 G	22392739.63	22392739.74	22392739.85	0.2680	0.0473
Mercury	56599-08-25 00:00 G	22393656.34	22393656.50	22393656.65	0.2666	0.0115
Mercury	56610-02-23 00:00 G	22397490.40	22397490.50	22397490.61	0.2675	0.0824
Mercury	56612-08-28 07:12 G	22398407.75	22398407.80	22398407.86	0.2667	0.2475
Mercury	56623-02-25 18:00 G	22402241.18	22402241.25	22402241.32	0.2669	0.2003
Mercury	56630-02-18 16:05 G	22404791.08	22404791.17	22404791.27	0.2680	0.1521
Mercury	56632-08-22 23:17 G	22405707.38	22405707.47	22405707.57	0.2663	0.2012
Venus	56632-10-10 09:36 G	22405755.74	22405755.90	22405756.06	0.2682	0.0103
Mercury	56643-02-21 10:48 G	22409541.84	22409541.95	22409542.06	0.2679	0.0162
Mercury	56645-08-26 06:43 G	22410458.63	22410458.78	22410458.93	0.2666	0.0504

Mercury	56656-02-24 05:02 G	22414292.60	22414292.71	22414292.81	0.2673	0.1003
Mercury	56663-02-17 02:24 G	22416842.57	22416842.60	22416842.63	0.2679	0.2556
Mercury	56669-02-25 22:48 G	22419043.39	22419043.45	22419043.51	0.2668	0.2188
Mercury	56676-02-19 21:07 G	22421593.28	22421593.38	22421593.48	0.2681	0.1157
Mercury	56678-08-24 06:00 G	22422509.63	22422509.75	22422509.88	0.2664	0.1473
Mercury	56689-02-21 15:36 G	22426344.04	22426344.15	22426344.26	0.2679	0.0031
Mercury	56691-08-27 13:12 G	22427260.91	22427261.05	22427261.20	0.2667	0.0939
Mercury	56702-02-25 09:50 G	22431094.82	22431094.91	22431095.01	0.2672	0.1322
Mercury	56709-02-18 07:26 G	22433644.75	22433644.81	22433644.87	0.2679	0.2228
Mercury	56715-02-28 03:22 G	22435845.60	22435845.64	22435845.69	0.2667	0.2385
Mercury	56722-02-21 02:10 G	22438395.49	22438395.59	22438395.69	0.2681	0.1022
Mercury	56724-08-25 12:58 G	22439311.90	22439312.04	22439312.18	0.2665	0.1161
Mercury	56735-02-23 20:38 G	22443146.25	22443146.36	22443146.47	0.2677	0.0353
Mercury	56737-08-28 19:55 G	22444063.20	22444063.33	22444063.46	0.2666	0.1429
Mercury	56748-02-26 14:38 G	22447897.02	22447897.11	22447897.21	0.2672	0.1430
Mercury	56755-02-19 12:29 G	22450446.95	22450447.02	22450447.09	0.2680	0.2018
Mercury	56761-02-28 08:10 G	22452647.83	22452647.84	22452647.85	0.2665	0.2641
Venus	56762-04-12 13:55 G	22453056.02	22453056.08	22453056.13	0.2642	0.2480
Mercury	56768-02-22 06:58 G	22455197.69	22455197.79	22455197.90	0.2681	0.0702
Venus	56770-04-10 02:24 G	22455975.44	22455975.60	22455975.76	0.2647	0.0561
Mercury	56770-08-26 19:41 G	22456114.17	22456114.32	22456114.47	0.2666	0.0522
Mercury	56781-02-24 01:26 G	22459948.46	22459948.56	22459948.67	0.2676	0.0483
Mercury	56783-08-30 02:53 G	22460865.51	22460865.62	22460865.73	0.2666	0.1790
Mercury	56794-02-26 19:26 G	22464699.23	22464699.31	22464699.39	0.2671	0.1765
Mercury	56801-02-19 17:31 G	22467249.15	22467249.23	22467249.31	0.2681	0.1782
Mercury	56803-08-24 19:26 G	22468165.27	22468165.31	22468165.36	0.2662	0.2524
Mercury	56814-02-22 12:00 G	22471999.89	22472000.00	22472000.11	0.2680	0.0516
Mercury	56816-08-27 02:24 G	22472916.44	22472916.60	22472916.75	0.2666	0.0307
Mercury	56827-02-25 06:29 G	22476750.66	22476750.77	22476750.87	0.2675	0.0800
Mercury	56829-08-30 09:36 G	22477667.84	22477667.90	22477667.97	0.2665	0.2423

Mercury	56840-02-28 00:14 G	22481501.43	22481501.51	22481501.59	0.2669	0.1854
Mercury	56847-02-20 22:19 G	22484051.34	22484051.43	22484051.52	0.2682	0.1497
Mercury	56849-08-25 02:10 G	22484967.51	22484967.59	22484967.67	0.2664	0.2205
Mercury	56860-02-23 17:02 G	22488802.10	22488802.21	22488802.32	0.2679	0.0254
Mercury	56862-08-28 08:53 G	22489718.72	22489718.87	22489719.02	0.2666	0.0341
Venus	56867-10-14 11:31 G	22491591.89	22491591.98	22491592.08	0.2678	0.2216
Mercury	56873-02-25 11:17 G	22493552.87	22493552.97	22493553.07	0.2675	0.0943
Venus	56875-10-11 23:31 G	22494511.37	22494511.48	22494511.60	0.2681	0.1880
Mercury	56880-02-19 08:53 G	22496102.83	22496102.87	22496102.91	0.2680	0.2498
Mercury	56886-02-28 05:02 G	22498303.65	22498303.71	22498303.77	0.2667	0.2173
Mercury	56893-02-21 03:22 G	22500853.54	22500853.64	22500853.73	0.2681	0.1332
Mercury	56895-08-26 08:53 G	22501769.75	22501769.87	22501769.98	0.2664	0.1715
Mercury	56906-02-24 22:05 G	22505604.31	22505604.42	22505604.53	0.2678	0.0072
Mercury	56908-08-29 15:50 G	22506521.01	22506521.16	22506521.31	0.2665	0.0648
Mercury	56919-02-27 16:05 G	22510355.08	22510355.17	22510355.27	0.2674	0.1217
Mercury	56926-02-20 13:41 G	22512905.03	22512905.07	22512905.12	0.2681	0.2387
Mercury	56932-03-01 09:50 G	22515105.86	22515105.91	22515105.97	0.2666	0.2299
Mercury	56939-02-23 08:24 G	22517655.74	22517655.85	22517655.95	0.2681	0.0992
Mercury	56941-08-27 15:22 G	22518572.01	22518572.14	22518572.27	0.2664	0.1313
Mercury	56952-02-26 02:53 G	22522406.51	22522406.62	22522406.73	0.2678	0.0200
Mercury	56954-08-30 22:34 G	22523323.31	22523323.44	22523323.58	0.2665	0.1224
Mercury	56965-02-27 21:07 G	22527157.28	22527157.38	22527157.47	0.2671	0.1440
Mercury	56972-02-21 18:43 G	22529707.21	22529707.28	22529707.35	0.2681	0.2023
Mercury	56978-03-02 14:38 G	22531908.08	22531908.11	22531908.13	0.2666	0.2579
Mercury	56985-02-23 13:26 G	22534457.95	22534458.06	22534458.16	0.2681	0.0850
Mercury	56987-08-28 22:05 G	22535374.28	22535374.42	22535374.56	0.2664	0.0901
Mercury	56998-02-26 07:55 G	22539208.72	22539208.83	22539208.93	0.2678	0.0516
Mercury	57000-09-01 05:17 G	22540125.60	22540125.72	22540125.84	0.2665	0.1598

58TH MILLENNIUM CE

This is a list of transits visible from Moon in the 58th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	57011-03-02 01:55	G	22543959.49	22543959.58	22543959.67	0.2670	0.1605	
Venus	57013-04-12 14:10	G	22544731.94	22544732.09	22544732.24	0.2654	0.0165	
Mercury	57018-02-22 23:31	G	22546509.41	22546509.48	22546509.56	0.2681	0.1897	
Mercury	57031-02-25 18:29	G	22551260.16	22551260.27	22551260.37	0.2681	0.0496	
Mercury	57033-08-30 04:48	G	22552176.55	22552176.70	22552176.85	0.2665	0.0350	
Mercury	57044-02-28 12:43	G	22556010.92	22556011.03	22556011.14	0.2676	0.0625	
Mercury	57046-09-02 11:46	G	22556927.90	22556927.99	22556928.09	0.2665	0.2054	
Mercury	57057-03-02 06:43	G	22560761.70	22560761.78	22560761.85	0.2669	0.1907	
Mercury	57064-02-24 04:34	G	22563311.60	22563311.69	22563311.78	0.2681	0.1565	
Mercury	57066-08-28 04:34	G	22564227.62	22564227.69	22564227.77	0.2663	0.2289	
Mercury	57077-02-25 23:17	G	22568062.36	22568062.47	22568062.58	0.2680	0.0373	
Mercury	57079-08-31 11:31	G	22568978.83	22568978.98	22568979.14	0.2665	0.0097	
Mercury	57090-02-28 17:31	G	22572813.13	22572813.23	22572813.34	0.2674	0.0980	
Mercury	57092-09-02 18:29	G	22573730.23	22573730.27	22573730.32	0.2665	0.2528	
Mercury	57097-02-21 14:53	G	22575363.11	22575363.12	22575363.13	0.2680	0.2656	
Mercury	57103-03-04 11:31	G	22577563.91	22577563.98	22577564.05	0.2669	0.2021	
Mercury	57110-02-25 09:36	G	22580113.81	22580113.90	22580114.00	0.2682	0.1351	
Mercury	57112-08-29 11:17	G	22581029.88	22581029.97	22581030.07	0.2663	0.2040	
Venus	57118-10-15 09:50	G	22583267.76	22583267.91	22583268.06	0.2686	0.0493	
Mercury	57123-02-28 04:19	G	22584864.57	22584864.68	22584864.79	0.2680	0.0105	

Mercury	57125-09-01 18:14 G	22585781.11	22585781.26	22585781.41	0.2665	0.0582
Mercury	57136-03-01 22:34 G	22589615.34	22589615.44	22589615.54	0.2673	0.1083
Mercury	57143-02-23 19:55 G	22592165.28	22592165.33	22592165.38	0.2680	0.2361
Mercury	57149-03-04 16:05 G	22594366.12	22594366.17	22594366.22	0.2668	0.2335
Mercury	57156-02-26 14:38 G	22596916.01	22596916.11	22596916.21	0.2682	0.1113
Mercury	57158-08-30 18:14 G	22597832.13	22597832.26	22597832.38	0.2664	0.1430
Mercury	57169-02-28 09:07 G	22601666.77	22601666.88	22601666.99	0.2678	0.0156
Mercury	57171-09-03 00:43 G	22602583.39	22602583.53	22602583.68	0.2665	0.0806
Mercury	57182-03-03 03:22 G	22606417.55	22606417.64	22606417.73	0.2673	0.1415
Mercury	57189-02-24 00:58 G	22608967.48	22608967.54	22608967.60	0.2681	0.2194
Mercury	57195-03-05 20:53 G	22611168.33	22611168.37	22611168.42	0.2666	0.2418
Mercury	57202-02-26 19:41 G	22613718.21	22613718.32	22613718.42	0.2682	0.0844
Mercury	57204-08-31 00:43 G	22614634.39	22614634.53	22614634.67	0.2665	0.1126
Mercury	57215-03-01 14:10 G	22618468.98	22618469.09	22618469.20	0.2677	0.0392
Mercury	57217-09-03 07:26 G	22619385.69	22619385.81	22619385.94	0.2664	0.1454
Mercury	57228-03-03 08:10 G	22623219.75	22623219.84	22623219.93	0.2672	0.1538
Mercury	57235-02-25 06:00 G	22625769.67	22625769.75	22625769.83	0.2682	0.1834
Mercury	57248-02-28 00:29 G	22630520.42	22630520.52	22630520.63	0.2681	0.0671
Mercury	57250-09-01 07:12 G	22631436.66	22631436.80	22631436.95	0.2665	0.0617
Venus	57256-04-13 09:22 G	22633487.72	22633487.89	22633488.06	0.2645	0.0174
Mercury	57261-03-01 18:58 G	22635271.19	22635271.29	22635271.40	0.2676	0.0658
Mercury	57263-09-04 14:24 G	22636187.99	22636188.10	22636188.22	0.2663	0.1747
Mercury	57274-03-04 12:58 G	22640021.96	22640022.04	22640022.12	0.2670	0.1807
Mercury	57281-02-25 10:48 G	22642571.87	22642571.95	22642572.04	0.2683	0.1730
Mercury	57283-08-30 07:26 G	22643487.80	22643487.81	22643487.83	0.2663	0.2642
Mercury	57294-02-28 05:31 G	22647322.62	22647322.73	22647322.84	0.2680	0.0331
Mercury	57296-09-01 13:55 G	22648238.93	22648239.08	22648239.23	0.2664	0.0221
Mercury	57307-03-04 00:00 G	22652073.39	22652073.50	22652073.60	0.2676	0.0822
Mercury	57309-09-05 21:07 G	22652990.31	22652990.38	22652990.46	0.2663	0.2324
Mercury	57320-03-05 17:46 G	22656824.17	22656824.24	22656824.31	0.2668	0.2014

Mercury	57327-02-27 15:50 G	22659374.06	22659374.16	22659374.25	0.2682	0.1361
Mercury	57329-08-31 13:55 G	22660289.99	22660290.08	22660290.18	0.2663	0.2070
Mercury	57340-03-01 10:34 G	22664124.83	22664124.94	22664125.05	0.2679	0.0200
Mercury	57342-09-03 20:38 G	22665041.21	22665041.36	22665041.51	0.2664	0.0202
Mercury	57353-03-04 04:48 G	22668875.60	22668875.70	22668875.80	0.2675	0.1119
Venus	57353-10-18 16:34 G	22669104.09	22669104.19	22669104.28	0.2675	0.2180
Mercury	57355-09-07 03:36 G	22669792.65	22669792.65	22669792.66	0.2664	0.2661
Mercury	57360-02-26 02:10 G	22671425.55	22671425.59	22671425.63	0.2682	0.2437
Venus	57361-10-16 02:10 G	22672023.45	22672023.59	22672023.73	0.2675	0.1376
Mercury	57366-03-06 22:34 G	22673626.38	22673626.44	22673626.50	0.2667	0.2189
Mercury	57373-02-27 20:53 G	22676176.27	22676176.37	22676176.47	0.2682	0.1224
Mercury	57375-09-01 20:24 G	22677092.25	22677092.35	22677092.46	0.2664	0.1841
Mercury	57386-03-02 15:22 G	22680927.03	22680927.14	22680927.26	0.2679	0.0198
Mercury	57388-09-04 03:22 G	22681843.50	22681843.64	22681843.79	0.2664	0.0766
Mercury	57399-03-05 09:36 G	22685677.80	22685677.90	22685678.00	0.2673	0.1233
Mercury	57406-02-27 07:12 G	22688227.74	22688227.80	22688227.86	0.2682	0.2227
Mercury	57412-03-08 03:22 G	22690428.60	22690428.64	22690428.68	0.2667	0.2466
Mercury	57419-03-02 01:55 G	22692978.47	22692978.58	22692978.68	0.2682	0.0898
Mercury	57421-09-03 03:07 G	22693894.50	22693894.63	22693894.77	0.2663	0.1209
Mercury	57432-03-03 20:24 G	22697729.24	22697729.35	22697729.46	0.2679	0.0267
Mercury	57434-09-06 10:05 G	22698645.78	22698645.92	22698646.06	0.2664	0.1044
Mercury	57445-03-06 14:24 G	22702480.02	22702480.10	22702480.19	0.2671	0.1583
Mercury	57452-02-28 12:00 G	22705029.93	22705030.00	22705030.08	0.2682	0.1990
Mercury	57458-03-09 08:10 G	22707230.81	22707230.84	22707230.86	0.2667	0.2586
Mercury	57465-03-02 06:58 G	22709780.68	22709780.79	22709780.89	0.2682	0.0696
Mercury	57467-09-04 10:05 G	22710696.78	22710696.92	22710697.06	0.2663	0.0939
Mercury	57478-03-05 01:12 G	22714531.45	22714531.55	22714531.66	0.2677	0.0600
Mercury	57480-09-06 16:48 G	22715448.08	22715448.20	22715448.32	0.2664	0.1663
Mercury	57491-03-07 19:26 G	22719282.22	22719282.31	22719282.39	0.2671	0.1672
Venus	57491-04-18 18:14 G	22719324.23	22719324.26	22719324.28	0.2655	0.2605

Mercury	57498-02-28 17:02 G	22721832.13	22721832.21	22721832.30	0.2682	0.1697
Venus	57499-04-16 13:55 G	22722243.93	22722244.08	22722244.23	0.2658	0.0070
Mercury	57511-03-04 11:46 G	22726582.88	22726582.99	22726583.10	0.2682	0.0454
Mercury	57513-09-05 16:48 G	22727499.05	22727499.20	22727499.35	0.2664	0.0335
Mercury	57524-03-06 06:14 G	22731333.65	22731333.76	22731333.87	0.2675	0.0768
Mercury	57526-09-08 23:17 G	22732250.37	22732250.47	22732250.58	0.2663	0.1892
Mercury	57537-03-09 00:14 G	22736084.43	22736084.51	22736084.58	0.2670	0.2005
Mercury	57544-03-01 22:05 G	22738634.33	22738634.42	22738634.51	0.2683	0.1531
Mercury	57546-09-03 16:34 G	22739550.13	22739550.19	22739550.26	0.2662	0.2358
Mercury	57557-03-04 16:48 G	22743385.09	22743385.20	22743385.31	0.2681	0.0201
Mercury	57559-09-06 23:17 G	22744301.32	22744301.47	22744301.62	0.2664	0.0054
Mercury	57570-03-07 11:17 G	22748135.86	22748135.97	22748136.07	0.2674	0.1023
Mercury	57572-09-09 06:00 G	22749052.71	22749052.75	22749052.80	0.2662	0.2539
Mercury	57577-02-28 08:24 G	22750685.82	22750685.85	22750685.87	0.2681	0.2600
Mercury	57583-03-10 04:48 G	22752886.64	22752886.70	22752886.77	0.2669	0.2118
Mercury	57590-03-03 03:07 G	22755436.53	22755436.63	22755436.73	0.2683	0.1173
Mercury	57592-09-03 23:31 G	22756352.37	22756352.48	22756352.58	0.2663	0.1892
Venus	57596-10-20 13:12 G	22757859.99	22757860.05	22757860.11	0.2687	0.2450
Mercury	57603-03-05 21:50 G	22760187.29	22760187.41	22760187.52	0.2679	0.0114
Venus	57604-10-18 08:10 G	22760779.71	22760779.84	22760779.97	0.2687	0.1283
Mercury	57605-09-07 05:46 G	22761103.59	22761103.74	22761103.89	0.2664	0.0477
Mercury	57616-03-07 16:05 G	22764938.07	22764938.17	22764938.27	0.2674	0.1252
Mercury	57623-03-01 13:12 G	22767487.99	22767488.05	22767488.11	0.2682	0.2231
Mercury	57629-03-10 09:36 G	22769688.85	22769688.90	22769688.95	0.2667	0.2372
Mercury	57636-03-03 07:55 G	22772238.73	22772238.83	22772238.94	0.2683	0.1073
Mercury	57638-09-05 06:00 G	22773154.63	22773154.75	22773154.87	0.2663	0.1563
Mercury	57649-03-06 02:38 G	22776989.50	22776989.61	22776989.72	0.2678	0.0334
Mercury	57651-09-08 12:29 G	22777905.88	22777906.02	22777906.17	0.2663	0.0875
Mercury	57662-03-08 20:53 G	22781740.27	22781740.37	22781740.46	0.2673	0.1430
Mercury	57669-03-01 18:14 G	22784290.20	22784290.26	22784290.33	0.2683	0.2077

Mercury	57675-03-11 14:24 G	22786491.07	22786491.10	22786491.13	0.2666	0.2567
Mercury	57682-03-04 12:58 G	22789040.93	22789041.04	22789041.15	0.2682	0.0704
Mercury	57684-09-05 12:29 G	22789956.88	22789957.02	22789957.16	0.2664	0.1007
Mercury	57695-03-07 07:41 G	22793791.71	22793791.82	22793791.93	0.2677	0.0432
Mercury	57697-09-08 19:12 G	22794708.17	22794708.30	22794708.43	0.2662	0.1284
Mercury	57708-03-10 01:41 G	22798542.48	22798542.57	22798542.65	0.2671	0.1711
Mercury	57715-03-03 23:17 G	22801092.39	22801092.47	22801092.55	0.2683	0.1773
Mercury	57728-03-05 18:00 G	22805843.15	22805843.25	22805843.36	0.2681	0.0564
Mercury	57730-09-07 18:58 G	22806759.15	22806759.29	22806759.44	0.2663	0.0754
Mercury	57741-03-08 12:29 G	22810593.92	22810594.02	22810594.13	0.2677	0.0792
Venus	57742-04-18 18:14 G	22811000.09	22811000.26	22811000.42	0.2647	0.0067
Mercury	57743-09-11 01:55 G	22811510.47	22811510.58	22811510.69	0.2662	0.1836
Mercury	57754-03-11 06:29 G	22815344.69	22815344.77	22815344.85	0.2669	0.1817
Mercury	57761-03-04 04:19 G	22817894.59	22817894.68	22817894.77	0.2683	0.1575
Mercury	57763-09-05 19:26 G	22818810.30	22818810.31	22818810.33	0.2662	0.2638
Mercury	57774-03-06 23:02 G	22822645.35	22822645.46	22822645.57	0.2680	0.0243
Mercury	57776-09-08 01:55 G	22823561.43	22823561.58	22823561.73	0.2663	0.0133
Mercury	57787-03-09 17:17 G	22827396.12	22827396.22	22827396.33	0.2676	0.0887
Mercury	57789-09-11 08:38 G	22828312.76	22828312.86	22828312.95	0.2662	0.2114
Mercury	57794-03-02 14:24 G	22829946.07	22829946.10	22829946.14	0.2683	0.2547
Mercury	57800-03-12 11:17 G	22832146.90	22832146.97	22832147.03	0.2668	0.2159
Mercury	57807-03-06 09:22 G	22834696.79	22834696.89	22834696.98	0.2683	0.1326
Mercury	57809-09-07 01:55 G	22835612.49	22835612.58	22835612.67	0.2662	0.2077
Mercury	57820-03-08 04:05 G	22839447.56	22839447.67	22839447.78	0.2680	0.0064
Mercury	57822-09-10 08:38 G	22840363.71	22840363.86	22840364.01	0.2663	0.0144
Mercury	57833-03-10 22:19 G	22844198.33	22844198.43	22844198.52	0.2674	0.1214
Mercury	57840-03-03 19:26 G	22846748.27	22846748.31	22846748.36	0.2683	0.2415
Mercury	57846-03-13 16:05 G	22848949.11	22848949.17	22848949.23	0.2668	0.2240
Venus	57847-10-21 06:43 G	22849535.62	22849535.78	22849535.94	0.2672	0.0842
Mercury	57853-03-06 14:24 G	22851499.00	22851499.10	22851499.20	0.2682	0.1024

Mercury	57855-09-08 08:38 G	22852414.75	22852414.86	22852414.97	0.2662	0.1765
Mercury	57866-03-09 08:53 G	22856249.76	22856249.87	22856249.98	0.2680	0.0200
Mercury	57868-09-10 15:07 G	22857165.99	22857166.13	22857166.28	0.2663	0.0751
Mercury	57879-03-12 03:07 G	22861000.53	22861000.63	22861000.72	0.2672	0.1364
Mercury	57886-03-05 00:29 G	22863550.45	22863550.52	22863550.59	0.2683	0.2060
Mercury	57892-03-13 20:53 G	22865751.34	22865751.37	22865751.39	0.2668	0.2565
Mercury	57899-03-07 19:26 G	22868301.20	22868301.31	22868301.41	0.2683	0.0868
Mercury	57901-09-09 15:22 G	22869217.00	22869217.14	22869217.27	0.2662	0.1284
Mercury	57912-03-10 13:55 G	22873051.97	22873052.08	22873052.19	0.2678	0.0452
Mercury	57914-09-12 21:50 G	22873968.26	22873968.41	22873968.55	0.2663	0.1007
Mercury	57925-03-13 07:55 G	22877802.74	22877802.83	22877802.92	0.2672	0.1622
Mercury	57932-03-06 05:31 G	22880352.65	22880352.73	22880352.80	0.2683	0.1927
Mercury	57945-03-09 00:14 G	22885103.40	22885103.51	22885103.62	0.2682	0.0521
Mercury	57947-09-10 21:50 G	22886019.27	22886019.41	22886019.56	0.2663	0.0823
Mercury	57958-03-11 18:43 G	22889854.17	22889854.28	22889854.39	0.2676	0.0612
Mercury	57960-09-13 04:19 G	22890770.55	22890770.68	22890770.80	0.2662	0.1550
Mercury	57971-03-14 12:43 G	22894604.95	22894605.03	22894605.11	0.2671	0.1830
Mercury	57978-03-07 10:34 G	22897154.85	22897154.94	22897155.03	0.2683	0.1562
Venus	57985-04-20 13:26 G	22899755.90	22899756.06	22899756.21	0.2657	0.0155
Mercury	57991-03-10 05:17 G	22901905.61	22901905.72	22901905.83	0.2682	0.0418
Mercury	57993-09-11 04:34 G	22902821.54	22902821.69	22902821.84	0.2663	0.0485

59TH MILLENNIUM CE

This is a list of transits visible from Moon in the 59th millennium CE.

PLANET	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
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TRANSIT

TIME

Mercury	58004-03-11 23:46 G	22906656.38	22906656.49	22906656.59	0.2675	0.0950
Mercury	58006-09-14 11:02 G	22907572.85	22907572.96	22907573.06	0.2661	0.1940
Mercury	58011-03-05 20:38 G	22909206.34	22909206.36	22909206.37	0.2682	0.2644
Mercury	58017-03-14 17:31 G	22911407.16	22911407.23	22911407.30	0.2670	0.2008
Mercury	58024-03-07 15:36 G	22913957.05	22913957.15	22913957.24	0.2684	0.1415
Mercury	58026-09-09 05:02 G	22914872.65	22914872.71	22914872.77	0.2662	0.2410
Mercury	58037-03-10 10:05 G	22918707.81	22918707.92	22918708.04	0.2680	0.0113
Mercury	58039-09-12 11:02 G	22919623.81	22919623.96	22919624.11	0.2663	0.0062
Mercury	58050-03-13 04:34 G	22923458.59	22923458.69	22923458.79	0.2675	0.1043
Mercury	58052-09-14 17:31 G	22924375.16	22924375.23	22924375.30	0.2660	0.2344
Mercury	58057-03-06 01:41 G	22926008.52	22926008.57	22926008.61	0.2683	0.2423
Mercury	58063-03-15 22:19 G	22928209.37	22928209.43	22928209.48	0.2668	0.2277
Mercury	58070-03-08 20:24 G	22930759.25	22930759.35	22930759.45	0.2684	0.1107
Mercury	58072-09-09 11:31 G	22931674.87	22931674.98	22931675.09	0.2662	0.1805
Venus	58082-10-24 12:00 G	22935371.88	22935372.00	22935372.12	0.2682	0.1684
Mercury	58083-03-11 15:07 G	22935510.02	22935510.13	22935510.25	0.2679	0.0130
Mercury	58085-09-12 17:46 G	22936426.09	22936426.24	22936426.39	0.2662	0.0337
Venus	58090-10-22 06:00 G	22938291.63	22938291.75	22938291.86	0.2685	0.1654
Mercury	58096-03-13 09:22 G	22940260.80	22940260.89	22940260.99	0.2674	0.1393
Mercury	58103-03-08 06:43 G	22942810.72	22942810.78	22942810.84	0.2684	0.2198
Mercury	58109-03-17 03:07 G	22945011.58	22945011.63	22945011.68	0.2667	0.2379
Mercury	58116-03-10 01:26 G	22947561.46	22947561.56	22947561.66	0.2683	0.0909
Mercury	58118-09-11 18:00 G	22948477.13	22948477.25	22948477.37	0.2663	0.1589
Mercury	58129-03-12 20:10 G	22952312.23	22952312.34	22952312.45	0.2678	0.0405
Mercury	58131-09-15 00:29 G	22953228.37	22953228.52	22953228.66	0.2661	0.0963
Mercury	58142-03-15 14:10 G	22957063.00	22957063.09	22957063.19	0.2673	0.1483
Mercury	58149-03-08 11:46 G	22959612.91	22959612.99	22959613.07	0.2684	0.1890
Mercury	58162-03-11 06:29 G	22964363.66	22964363.77	22964363.88	0.2682	0.0661

Mercury	58164-09-12 00:29 G	22965279.38	22965279.52	22965279.66	0.2662	0.1008
Mercury	58175-03-14 00:58 G	22969114.44	22969114.54	22969114.65	0.2678	0.0577
Mercury	58177-09-15 07:12 G	22970030.66	22970030.80	22970030.93	0.2661	0.1194
Mercury	58188-03-15 18:58 G	22973865.21	22973865.29	22973865.37	0.2671	0.1799
Mercury	58195-03-09 16:34 G	22976415.11	22976415.19	22976415.28	0.2684	0.1749
Mercury	58208-03-12 11:31 G	22981165.87	22981165.98	22981166.09	0.2681	0.0365
Mercury	58210-09-14 07:12 G	22982081.66	22982081.80	22982081.95	0.2662	0.0686
Mercury	58221-03-15 06:00 G	22985916.64	22985916.75	22985916.85	0.2677	0.0828
Mercury	58223-09-17 13:26 G	22986832.95	22986833.06	22986833.17	0.2661	0.1807
Venus	58228-04-23 00:43 G	22988512.38	22988512.53	22988512.69	0.2652	0.0641
Mercury	58234-03-18 00:00 G	22990667.42	22990667.50	22990667.57	0.2670	0.1938
Venus	58236-04-20 13:12 G	22991431.99	22991432.05	22991432.10	0.2649	0.2466
Mercury	58241-03-10 21:36 G	22993217.31	22993217.40	22993217.49	0.2684	0.1396
Mercury	58243-09-12 07:26 G	22994132.76	22994132.81	22994132.86	0.2661	0.2507
Mercury	58254-03-13 16:34 G	22997968.08	22997968.19	22997968.30	0.2681	0.0222
Mercury	58256-09-14 13:55 G	22998883.93	22998884.08	22998884.23	0.2661	0.0216
Mercury	58267-03-16 10:48 G	23002718.85	23002718.95	23002719.05	0.2675	0.1062
Mercury	58269-09-17 19:55 G	23003635.24	23003635.33	23003635.43	0.2661	0.2043
Mercury	58274-03-09 07:41 G	23005268.78	23005268.82	23005268.87	0.2684	0.2442
Mercury	58280-03-18 04:48 G	23007469.64	23007469.70	23007469.76	0.2669	0.2206
Mercury	58287-03-12 02:38 G	23010019.52	23010019.61	23010019.71	0.2683	0.1258
Mercury	58289-09-12 14:10 G	23010935.01	23010935.09	23010935.17	0.2661	0.2177
Mercury	58300-03-14 21:22 G	23014770.28	23014770.39	23014770.50	0.2681	0.0120
Mercury	58302-09-16 20:24 G	23015686.20	23015686.35	23015686.50	0.2662	0.0228
Mercury	58313-03-17 15:36 G	23019521.06	23019521.15	23019521.25	0.2673	0.1222
Mercury	58315-09-20 02:24 G	23020437.57	23020437.60	23020437.63	0.2659	0.2588
Mercury	58320-03-10 12:43 G	23022070.98	23022071.03	23022071.09	0.2684	0.2304
Mercury	58326-03-20 09:22 G	23024271.85	23024271.89	23024271.94	0.2669	0.2389
Mercury	58333-03-13 07:41 G	23026821.72	23026821.82	23026821.93	0.2683	0.0898
Venus	58333-10-25 12:14 G	23027047.86	23027048.01	23027048.17	0.2673	0.0833

Mercury	58335-09-14 20:53 G	23027737.25	23027737.37	23027737.49	0.2661	0.1605
Mercury	58346-03-16 02:24 G	23031572.49	23031572.60	23031572.71	0.2679	0.0233
Mercury	58348-09-17 02:53 G	23032488.47	23032488.62	23032488.77	0.2662	0.0588
Mercury	58359-03-18 20:38 G	23036323.27	23036323.36	23036323.45	0.2673	0.1541
Mercury	58366-03-11 17:46 G	23038873.17	23038873.24	23038873.32	0.2684	0.1980
Mercury	58372-03-20 14:10 G	23041074.06	23041074.09	23041074.12	0.2668	0.2560
Mercury	58379-03-14 12:43 G	23043623.92	23043624.03	23043624.14	0.2683	0.0766
Mercury	58381-09-15 03:36 G	23044539.52	23044539.65	23044539.78	0.2661	0.1353
Mercury	58392-03-16 07:12 G	23048374.70	23048374.80	23048374.91	0.2677	0.0594
Mercury	58394-09-18 09:22 G	23049290.75	23049290.89	23049291.03	0.2661	0.1104
Mercury	58405-03-19 01:26 G	23053125.47	23053125.56	23053125.65	0.2672	0.1639
Mercury	58412-03-11 22:48 G	23055675.37	23055675.45	23055675.54	0.2684	0.1753
Mercury	58425-03-14 17:46 G	23060426.13	23060426.24	23060426.35	0.2683	0.0451
Mercury	58427-09-16 09:50 G	23061341.77	23061341.91	23061342.06	0.2662	0.0750
Mercury	58438-03-17 12:14 G	23065176.90	23065177.01	23065177.12	0.2676	0.0705
Mercury	58440-09-18 16:05 G	23066093.04	23066093.17	23066093.30	0.2659	0.1385
Mercury	58451-03-20 06:14 G	23069927.68	23069927.76	23069927.83	0.2671	0.1970
Mercury	58458-03-13 03:50 G	23072477.57	23072477.66	23072477.76	0.2685	0.1532
Mercury	58460-09-13 10:34 G	23073392.94	23073392.94	23073392.95	0.2661	0.2653
Mercury	58471-03-15 22:48 G	23077228.33	23077228.45	23077228.56	0.2681	0.0274
Venus	58471-04-24 15:22 G	23077267.98	23077268.14	23077268.30	0.2655	0.0139
Mercury	58473-09-16 16:19 G	23078144.04	23078144.18	23078144.33	0.2662	0.0544
Mercury	58484-03-17 17:02 G	23081979.11	23081979.21	23081979.32	0.2676	0.1033
Mercury	58486-09-19 22:34 G	23082895.35	23082895.44	23082895.54	0.2658	0.2004
Mercury	58491-03-11 13:55 G	23084529.06	23084529.08	23084529.10	0.2683	0.2617
Mercury	58497-03-20 11:02 G	23086729.89	23086729.96	23086730.03	0.2670	0.2056
Mercury	58504-03-14 08:53 G	23089279.77	23089279.87	23089279.97	0.2685	0.1237
Mercury	58506-09-15 17:02 G	23090195.14	23090195.21	23090195.29	0.2661	0.2310
Mercury	58517-03-17 03:50 G	23094030.54	23094030.66	23094030.77	0.2680	0.0110
Mercury	58519-09-18 23:02 G	23094946.31	23094946.46	23094946.61	0.2661	0.0060

Mercury	58530-03-19 22:05 G	23098781.32	23098781.42	23098781.52	0.2676	0.1173
Mercury	58532-09-21 05:17 G	23099697.64	23099697.72	23099697.80	0.2659	0.2213
Mercury	58537-03-12 18:58 G	23101331.23	23101331.29	23101331.35	0.2685	0.2248
Mercury	58543-03-22 15:36 G	23103532.11	23103532.15	23103532.20	0.2668	0.2368
Mercury	58550-03-15 13:55 G	23106081.98	23106082.08	23106082.18	0.2684	0.1080
Mercury	58552-09-15 23:31 G	23106997.38	23106997.48	23106997.59	0.2662	0.1894
Mercury	58563-03-18 08:38 G	23110832.75	23110832.86	23110832.97	0.2679	0.0272
Mercury	58565-09-19 05:46 G	23111748.59	23111748.74	23111748.89	0.2660	0.0373
Venus	58568-10-28 13:41 G	23112883.94	23112884.07	23112884.21	0.2675	0.1481
Mercury	58576-03-20 02:53 G	23115583.52	23115583.62	23115583.71	0.2674	0.1427
Venus	58576-10-26 04:19 G	23115803.55	23115803.68	23115803.81	0.2679	0.1491
Mercury	58583-03-14 00:00 G	23118133.43	23118133.50	23118133.57	0.2685	0.2138
Mercury	58589-03-22 20:38 G	23120334.32	23120334.36	23120334.39	0.2668	0.2492
Mercury	58596-03-15 18:58 G	23122884.18	23122884.29	23122884.40	0.2683	0.0727
Mercury	58598-09-17 06:00 G	23123799.62	23123799.75	23123799.87	0.2661	0.1463
Mercury	58609-03-19 13:26 G	23127634.95	23127635.06	23127635.18	0.2679	0.0436
Mercury	58611-09-21 12:14 G	23128550.87	23128551.01	23128551.15	0.2659	0.0852
Mercury	58622-03-22 07:41 G	23132385.73	23132385.82	23132385.90	0.2672	0.1648
Mercury	58629-03-15 05:02 G	23134935.62	23134935.71	23134935.79	0.2685	0.1776
Mercury	58642-03-18 00:00 G	23139686.39	23139686.50	23139686.61	0.2682	0.0598
Mercury	58644-09-18 12:43 G	23140601.90	23140602.03	23140602.17	0.2661	0.1115
Mercury	58655-03-20 18:29 G	23144437.16	23144437.27	23144437.37	0.2678	0.0743
Mercury	58657-09-21 18:43 G	23145353.15	23145353.28	23145353.41	0.2660	0.1247
Mercury	58668-03-22 12:29 G	23149187.94	23149188.02	23149188.10	0.2671	0.1806
Mercury	58675-03-16 10:05 G	23151737.83	23151737.92	23151738.00	0.2685	0.1636
Mercury	58688-03-18 05:02 G	23156488.59	23156488.71	23156488.82	0.2682	0.0264
Mercury	58690-09-19 19:26 G	23157404.16	23157404.31	23157404.46	0.2660	0.0535
Mercury	58701-03-21 23:17 G	23161239.37	23161239.47	23161239.58	0.2676	0.0851
Mercury	58703-09-24 01:12 G	23162155.43	23162155.55	23162155.67	0.2659	0.1634
Mercury	58708-03-14 20:10 G	23163789.32	23163789.34	23163789.36	0.2685	0.2629

Mercury	58714-03-24 17:17 G	23165990.15	23165990.22	23165990.29	0.2670	0.2106
Venus	58714-04-28 04:05 G	23166024.53	23166024.67	23166024.81	0.2657	0.1274
Mercury	58721-03-17 15:07 G	23168540.03	23168540.13	23168540.23	0.2684	0.1311
Venus	58722-04-25 19:12 G	23168944.21	23168944.30	23168944.40	0.2653	0.2139
Mercury	58723-09-18 19:55 G	23169455.27	23169455.33	23169455.39	0.2660	0.2402
Mercury	58734-03-20 09:50 G	23173290.80	23173290.91	23173291.02	0.2682	0.0127
Mercury	58736-09-21 01:55 G	23174206.43	23174206.58	23174206.73	0.2660	0.0316
Mercury	58747-03-23 04:19 G	23178041.58	23178041.68	23178041.77	0.2674	0.1201
Mercury	58749-09-24 07:41 G	23178957.73	23178957.82	23178957.91	0.2658	0.2127
Mercury	58754-03-16 00:58 G	23180591.50	23180591.54	23180591.59	0.2684	0.2417
Mercury	58760-03-24 22:05 G	23182792.36	23182792.42	23182792.48	0.2670	0.2212
Mercury	58767-03-18 20:10 G	23185342.24	23185342.34	23185342.44	0.2684	0.1086
Mercury	58769-09-19 02:38 G	23186257.52	23186257.61	23186257.69	0.2660	0.2142
Mercury	58780-03-20 14:53 G	23190093.01	23190093.12	23190093.23	0.2681	0.0218
Mercury	58782-09-22 08:24 G	23191008.70	23191008.85	23191009.00	0.2660	0.0301
Mercury	58793-03-23 09:07 G	23194843.78	23194843.88	23194843.98	0.2674	0.1297
Mercury	58795-09-25 14:10 G	23195760.03	23195760.09	23195760.16	0.2656	0.2391
Mercury	58800-03-16 06:00 G	23197393.69	23197393.75	23197393.82	0.2685	0.2114
Mercury	58806-03-26 02:53 G	23199594.58	23199594.62	23199594.65	0.2669	0.2521
Mercury	58813-03-19 01:12 G	23202144.44	23202144.55	23202144.65	0.2684	0.0868
Mercury	58815-09-20 09:07 G	23203059.77	23203059.88	23203060.00	0.2660	0.1601
Venus	58819-10-29 15:50 G	23204560.02	23204560.16	23204560.31	0.2676	0.1023
Mercury	58826-03-21 19:41 G	23206895.21	23206895.32	23206895.43	0.2679	0.0396
Mercury	58828-09-22 14:53 G	23207810.97	23207811.12	23207811.27	0.2660	0.0500
Mercury	58839-03-24 13:55 G	23211646.00	23211646.08	23211646.17	0.2673	0.1630
Mercury	58846-03-17 11:17 G	23214195.89	23214195.97	23214196.04	0.2685	0.1950
Mercury	58852-03-26 07:26 G	23216396.79	23216396.81	23216396.83	0.2668	0.2604
Mercury	58859-03-20 06:00 G	23218946.64	23218946.75	23218946.86	0.2684	0.0590
Mercury	58861-09-20 15:36 G	23219862.02	23219862.15	23219862.28	0.2661	0.1284
Mercury	58872-03-22 00:43 G	23223697.42	23223697.53	23223697.64	0.2677	0.0620

Mercury	58874-09-23 21:22 G	23224613.25	23224613.39	23224613.53	0.2658	0.1092
Mercury	58885-03-24 18:43 G	23228448.20	23228448.28	23228448.37	0.2672	0.1750
Mercury	58892-03-17 16:19 G	23230998.09	23230998.18	23230998.27	0.2686	0.1582
Mercury	58905-03-21 11:02 G	23235748.85	23235748.96	23235749.07	0.2683	0.0423
Mercury	58907-09-22 22:05 G	23236664.27	23236664.42	23236664.56	0.2661	0.0849
Mercury	58918-03-24 05:31 G	23240499.63	23240499.73	23240499.84	0.2677	0.0883
Mercury	58920-09-25 03:50 G	23241415.53	23241415.66	23241415.79	0.2657	0.1374
Mercury	58925-03-17 02:10 G	23243049.58	23243049.59	23243049.60	0.2684	0.2653
Mercury	58931-03-26 23:31 G	23245250.41	23245250.48	23245250.55	0.2671	0.1993
Mercury	58938-03-19 21:07 G	23247800.29	23247800.38	23247800.48	0.2686	0.1481
Mercury	58951-03-22 16:05 G	23252551.06	23252551.17	23252551.28	0.2681	0.0077
Mercury	58953-09-23 04:34 G	23253466.54	23253466.69	23253466.83	0.2660	0.0424
Venus	58957-04-28 19:55 G	23254780.16	23254780.33	23254780.49	0.2653	0.0182
Mercury	58964-03-24 10:34 G	23257301.84	23257301.94	23257302.04	0.2677	0.1039
Mercury	58966-09-26 10:19 G	23258217.83	23258217.93	23258218.04	0.2657	0.1879
Mercury	58971-03-18 07:12 G	23259851.76	23259851.80	23259851.84	0.2686	0.2491
Mercury	58977-03-27 04:19 G	23262052.62	23262052.68	23262052.74	0.2669	0.2206
Mercury	58984-03-20 02:10 G	23264602.49	23264602.59	23264602.69	0.2685	0.1113
Mercury	58986-09-21 05:31 G	23265517.64	23265517.73	23265517.81	0.2660	0.2167
Mercury	58997-03-22 21:07 G	23269353.27	23269353.38	23269353.49	0.2680	0.0041
Mercury	58999-09-24 11:17 G	23270268.81	23270268.97	23270269.12	0.2658	0.0109

60TH MILLENNIUM CE

This is a list of transits visible from Moon in the 60th millennium CE.

PLANET	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
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TRANSIT

TIME

Mercury	59010-03-26 15:22 G	23274104.04	23274104.14	23274104.23	0.2675	0.1336
Mercury	59012-09-27 16:48 G	23275020.12	23275020.20	23275020.28	0.2657	0.2229
Mercury	59017-03-19 12:14 G	23276653.95	23276654.01	23276654.07	0.2686	0.2196
Mercury	59023-03-29 09:07 G	23278854.83	23278854.88	23278854.93	0.2669	0.2377
Mercury	59030-03-22 07:12 G	23281404.70	23281404.80	23281404.91	0.2684	0.0965
Mercury	59032-09-22 11:46 G	23282319.89	23282319.99	23282320.09	0.2660	0.1967
Mercury	59043-03-25 01:55 G	23286155.47	23286155.58	23286155.69	0.2680	0.0407
Mercury	59045-09-25 17:46 G	23287071.09	23287071.24	23287071.39	0.2658	0.0493
Venus	59054-11-02 18:29 G	23290396.17	23290396.27	23290396.36	0.2669	0.2184
Mercury	59056-03-26 20:10 G	23290906.25	23290906.34	23290906.43	0.2673	0.1437
Mercury	59058-09-28 23:17 G	23291822.45	23291822.47	23291822.48	0.2656	0.2633
Venus	59062-10-31 06:00 G	23293315.61	23293315.75	23293315.88	0.2672	0.1426
Mercury	59063-03-20 17:17 G	23293456.14	23293456.22	23293456.29	0.2686	0.1976
Mercury	59069-03-29 13:55 G	23295657.07	23295657.08	23295657.09	0.2669	0.2649
Mercury	59076-03-22 12:14 G	23298206.91	23298207.01	23298207.12	0.2683	0.0658
Mercury	59078-09-23 18:29 G	23299122.14	23299122.27	23299122.39	0.2659	0.1363
Mercury	59089-03-25 06:58 G	23302957.68	23302957.79	23302957.90	0.2679	0.0500
Mercury	59091-09-27 00:14 G	23303873.36	23303873.51	23303873.65	0.2658	0.0705
Mercury	59102-03-29 00:58 G	23307708.46	23307708.54	23307708.62	0.2672	0.1780
Mercury	59109-03-21 22:19 G	23310258.34	23310258.43	23310258.51	0.2685	0.1749
Mercury	59122-03-24 17:17 G	23315009.11	23315009.22	23315009.33	0.2683	0.0447
Mercury	59124-09-25 00:58 G	23315924.41	23315924.54	23315924.68	0.2659	0.1111
Mercury	59135-03-27 11:46 G	23319759.89	23319759.99	23319760.10	0.2677	0.0823
Mercury	59137-09-28 06:29 G	23320675.64	23320675.77	23320675.90	0.2658	0.1303
Mercury	59148-03-29 05:46 G	23324510.67	23324510.74	23324510.82	0.2671	0.1871
Mercury	59155-03-23 03:22 G	23327060.55	23327060.64	23327060.73	0.2685	0.1439
Mercury	59168-03-24 22:19 G	23331811.32	23331811.43	23331811.54	0.2683	0.0224
Mercury	59170-09-26 07:26 G	23332726.67	23332726.81	23332726.96	0.2659	0.0567

Mercury	59181-03-27 16:48 G	23336562.09	23336562.20	23336562.30	0.2675	0.0992
Mercury	59183-09-29 12:58 G	23337477.91	23337478.04	23337478.16	0.2657	0.1501
Mercury	59188-03-20 13:12 G	23339112.01	23339112.05	23339112.09	0.2685	0.2476
Mercury	59194-03-30 10:34 G	23341312.88	23341312.94	23341313.01	0.2671	0.2198
Venus	59200-05-01 04:19 G	23343536.55	23343536.68	23343536.82	0.2663	0.1234
Mercury	59201-03-23 08:24 G	23343862.75	23343862.85	23343862.95	0.2685	0.1286
Mercury	59203-09-24 08:24 G	23344777.80	23344777.85	23344777.90	0.2659	0.2472
Venus	59208-04-28 22:34 G	23346456.38	23346456.44	23346456.51	0.2660	0.2399
Mercury	59214-03-26 03:07 G	23348613.52	23348613.63	23348613.74	0.2682	0.0071
Mercury	59216-09-26 13:55 G	23349528.93	23349529.08	23349529.23	0.2659	0.0284
Mercury	59227-03-28 21:36 G	23353364.30	23353364.40	23353364.50	0.2675	0.1227
Mercury	59229-09-29 19:26 G	23354280.21	23354280.31	23354280.40	0.2655	0.2089
Mercury	59234-03-21 18:14 G	23355914.21	23355914.26	23355914.32	0.2685	0.2355
Mercury	59240-03-30 15:22 G	23358115.09	23358115.14	23358115.20	0.2670	0.2306
Mercury	59247-03-24 13:26 G	23360664.96	23360665.06	23360665.17	0.2685	0.0924
Mercury	59249-09-24 14:53 G	23361580.03	23361580.12	23361580.22	0.2659	0.1973
Mercury	59260-03-26 08:10 G	23365415.73	23365415.84	23365415.95	0.2680	0.0211
Mercury	59262-09-27 20:10 G	23366331.19	23366331.34	23366331.49	0.2658	0.0196
Mercury	59273-03-29 02:24 G	23370166.51	23370166.60	23370166.70	0.2674	0.1456
Mercury	59275-10-01 01:55 G	23371082.51	23371082.58	23371082.65	0.2655	0.2343
Mercury	59280-03-21 23:31 G	23372716.40	23372716.48	23372716.55	0.2686	0.1991
Mercury	59286-03-31 20:10 G	23374917.31	23374917.34	23374917.37	0.2668	0.2545
Mercury	59293-03-24 18:29 G	23377467.16	23377467.27	23377467.37	0.2685	0.0829
Mercury	59295-09-25 21:22 G	23378382.28	23378382.39	23378382.50	0.2660	0.1716
Venus	59297-11-03 21:22 G	23379152.29	23379152.39	23379152.49	0.2682	0.1985
Venus	59305-11-02 16:19 G	23382072.04	23382072.18	23382072.33	0.2679	0.0870
Mercury	59306-03-28 13:12 G	23382217.94	23382218.05	23382218.16	0.2678	0.0561
Mercury	59308-09-29 02:53 G	23383133.47	23383133.62	23383133.76	0.2657	0.0606
Mercury	59319-03-31 07:12 G	23386968.72	23386968.80	23386968.89	0.2674	0.1629
Mercury	59326-03-24 04:34 G	23389518.61	23389518.69	23389518.77	0.2687	0.1828

Mercury	59339-03-26 23:17 G	23394269.36	23394269.47	23394269.58	0.2684	0.0466
Mercury	59341-09-27 03:50 G	23395184.52	23395184.66	23395184.79	0.2659	0.1159
Mercury	59352-03-28 18:00 G	23399020.14	23399020.25	23399020.36	0.2678	0.0651
Mercury	59354-09-30 09:22 G	23399935.75	23399935.89	23399936.03	0.2656	0.0927
Mercury	59365-03-31 12:00 G	23403770.93	23403771.00	23403771.08	0.2672	0.1909
Mercury	59372-03-24 09:22 G	23406320.80	23406320.89	23406320.99	0.2687	0.1531
Mercury	59385-03-27 04:19 G	23411071.57	23411071.68	23411071.80	0.2682	0.0333
Mercury	59387-09-28 10:19 G	23411986.79	23411986.93	23411987.07	0.2658	0.0938
Mercury	59398-03-29 23:02 G	23415822.35	23415822.46	23415822.56	0.2678	0.1014
Mercury	59400-10-01 15:50 G	23416738.03	23416738.16	23416738.28	0.2656	0.1476
Mercury	59405-03-23 19:26 G	23418372.29	23418372.31	23418372.33	0.2686	0.2635
Mercury	59411-04-02 16:48 G	23420573.13	23420573.20	23420573.27	0.2670	0.2003
Mercury	59418-03-26 14:24 G	23423123.01	23423123.10	23423123.20	0.2686	0.1321
Mercury	59431-03-29 09:22 G	23427873.78	23427873.89	23427874.01	0.2681	0.0080
Mercury	59433-09-29 16:48 G	23428789.05	23428789.20	23428789.35	0.2657	0.0336
Venus	59443-05-04 02:53 G	23432292.45	23432292.62	23432292.78	0.2652	0.0673
Mercury	59444-03-31 03:50 G	23432624.56	23432624.66	23432624.76	0.2676	0.1100
Mercury	59446-10-02 22:05 G	23433540.30	23433540.42	23433540.54	0.2656	0.1693
Mercury	59451-03-25 00:29 G	23435174.46	23435174.52	23435174.57	0.2687	0.2309
Mercury	59457-04-02 21:36 G	23437375.35	23437375.40	23437375.45	0.2670	0.2344
Mercury	59464-03-26 19:26 G	23439925.21	23439925.31	23439925.42	0.2685	0.1087
Mercury	59466-09-27 17:46 G	23440840.16	23440840.24	23440840.32	0.2659	0.2193
Mercury	59477-03-29 14:24 G	23444675.99	23444676.10	23444676.21	0.2681	0.0181
Mercury	59479-09-30 23:17 G	23445591.32	23445591.47	23445591.62	0.2657	0.0112
Mercury	59490-04-01 08:38 G	23449426.77	23449426.86	23449426.96	0.2674	0.1413
Mercury	59492-10-03 04:19 G	23450342.61	23450342.68	23450342.76	0.2655	0.2274
Mercury	59497-03-25 05:31 G	23451976.66	23451976.73	23451976.79	0.2687	0.2183
Mercury	59503-04-05 02:24 G	23454177.56	23454177.60	23454177.65	0.2670	0.2427
Mercury	59510-03-29 00:29 G	23456727.42	23456727.52	23456727.63	0.2684	0.0779
Mercury	59512-09-29 00:14 G	23457642.41	23457642.51	23457642.62	0.2658	0.1844

Mercury	59523-03-31 19:12 G	23461478.19	23461478.30	23461478.41	0.2681	0.0424
Mercury	59525-10-02 05:31 G	23462393.59	23462393.73	23462393.88	0.2657	0.0452
Mercury	59536-04-02 13:26 G	23466228.97	23466229.06	23466229.15	0.2673	0.1565
Mercury	59538-10-05 10:34 G	23467144.89	23467144.94	23467145.00	0.2653	0.2457
Mercury	59543-03-27 10:19 G	23468778.85	23468778.93	23468779.02	0.2686	0.1821
Venus	59548-11-04 10:19 G	23470827.79	23470827.93	23470828.06	0.2667	0.1590
Mercury	59556-03-29 05:31 G	23473529.62	23473529.73	23473529.84	0.2684	0.0640
Mercury	59558-09-30 06:58 G	23474444.66	23474444.79	23474444.91	0.2658	0.1448
Mercury	59569-04-01 00:14 G	23478280.40	23478280.51	23478280.62	0.2679	0.0673
Mercury	59571-10-03 12:00 G	23479195.85	23479196.00	23479196.15	0.2657	0.0703
Mercury	59582-04-03 18:14 G	23483031.18	23483031.26	23483031.35	0.2672	0.1816
Mercury	59589-03-27 15:36 G	23485581.06	23485581.15	23485581.24	0.2686	0.1680
Mercury	59602-03-30 10:34 G	23490331.83	23490331.94	23490332.05	0.2684	0.0282
Mercury	59604-09-30 13:26 G	23491246.92	23491247.06	23491247.19	0.2658	0.0967
Mercury	59615-04-02 05:02 G	23495082.61	23495082.71	23495082.82	0.2676	0.0826
Mercury	59617-10-03 18:14 G	23495998.13	23495998.26	23495998.40	0.2655	0.1171
Mercury	59628-04-03 23:02 G	23499833.39	23499833.46	23499833.54	0.2672	0.2018
Mercury	59635-03-28 20:38 G	23502383.26	23502383.36	23502383.46	0.2686	0.1320
Mercury	59648-03-30 15:36 G	23507134.04	23507134.15	23507134.26	0.2683	0.0186
Mercury	59650-10-01 19:41 G	23508049.17	23508049.32	23508049.46	0.2658	0.0704
Mercury	59661-04-02 10:05 G	23511884.82	23511884.92	23511885.02	0.2676	0.1157
Mercury	59663-10-05 00:43 G	23512800.41	23512800.53	23512800.65	0.2654	0.1579
Mercury	59668-03-26 06:29 G	23514434.72	23514434.77	23514434.82	0.2686	0.2420
Mercury	59674-04-05 03:50 G	23516635.60	23516635.66	23516635.72	0.2671	0.2184
Mercury	59681-03-29 01:41 G	23519185.47	23519185.57	23519185.67	0.2686	0.1174
Mercury	59683-09-29 21:07 G	23520100.33	23520100.38	23520100.43	0.2658	0.2480
Venus	59686-05-05 02:53 G	23521048.47	23521048.62	23521048.77	0.2665	0.0501
Mercury	59694-03-31 20:24 G	23523936.24	23523936.35	23523936.47	0.2681	0.0214
Venus	59694-05-02 22:19 G	23523968.39	23523968.43	23523968.48	0.2666	0.2505
Mercury	59696-10-02 01:55 G	23524851.43	23524851.58	23524851.73	0.2657	0.0163

Mercury	59707-04-04 14:53 G	23528687.02	23528687.12	23528687.22	0.2676	0.1247
Mercury	59709-10-06 07:12 G	23529602.69	23529602.80	23529602.90	0.2653	0.1899
Mercury	59714-03-28 11:31 G	23531236.92	23531236.98	23531237.05	0.2687	0.2178
Mercury	59720-04-06 08:38 G	23533437.82	23533437.86	23533437.90	0.2670	0.2459
Mercury	59727-03-31 06:43 G	23535987.67	23535987.78	23535987.88	0.2686	0.0868
Mercury	59729-10-01 03:22 G	23536902.54	23536902.64	23536902.74	0.2658	0.1915
Mercury	59740-04-02 01:26 G	23540738.45	23540738.56	23540738.68	0.2680	0.0326
Mercury	59742-10-04 08:24 G	23541653.70	23541653.85	23541654.00	0.2656	0.0071
Mercury	59753-04-04 19:41 G	23545489.23	23545489.32	23545489.41	0.2675	0.1591
Mercury	59755-10-07 13:41 G	23546405.01	23546405.07	23546405.13	0.2653	0.2417
Mercury	59760-03-28 16:34 G	23548039.12	23548039.19	23548039.27	0.2687	0.1969
Mercury	59766-04-07 13:26 G	23550240.03	23550240.06	23550240.09	0.2669	0.2553
Mercury	59773-03-31 11:46 G	23552789.88	23552789.99	23552790.10	0.2685	0.0664
Mercury	59775-10-02 09:36 G	23553704.79	23553704.90	23553705.02	0.2658	0.1706
Venus	59783-11-08 20:10 G	23556664.23	23556664.34	23556664.46	0.2679	0.1755
Mercury	59786-04-03 06:29 G	23557540.66	23557540.77	23557540.88	0.2679	0.0626
Mercury	59788-10-04 14:53 G	23558455.97	23558456.12	23558456.26	0.2654	0.0655
Venus	59791-11-06 15:22 G	23559584.00	23559584.14	23559584.29	0.2679	0.0741
Mercury	59799-04-06 00:29 G	23562291.43	23562291.52	23562291.61	0.2673	0.1674
Mercury	59806-03-30 21:36 G	23564841.31	23564841.40	23564841.49	0.2688	0.1653
Mercury	59819-04-02 16:48 G	23569592.09	23569592.20	23569592.31	0.2683	0.0433
Mercury	59821-10-03 16:05 G	23570507.03	23570507.17	23570507.30	0.2657	0.1188
Mercury	59832-04-04 11:17 G	23574342.87	23574342.97	23574343.08	0.2679	0.0784
Mercury	59834-10-06 21:22 G	23575258.24	23575258.39	23575258.53	0.2654	0.0855
Mercury	59845-04-07 05:17 G	23579093.65	23579093.72	23579093.79	0.2671	0.1981
Mercury	59852-03-31 02:38 G	23581643.52	23581643.61	23581643.70	0.2687	0.1512
Mercury	59865-04-02 21:50 G	23586394.29	23586394.41	23586394.52	0.2683	0.0149
Mercury	59867-10-04 22:34 G	23587309.30	23587309.44	23587309.58	0.2656	0.0837
Mercury	59878-04-05 16:05 G	23591145.07	23591145.17	23591145.28	0.2677	0.1029
Mercury	59880-10-07 03:36 G	23592060.52	23592060.65	23592060.77	0.2655	0.1424

Mercury	59885-03-29 12:29 G	23593695.00	23593695.02	23593695.05	0.2688	0.2572
Mercury	59891-04-08 10:05 G	23595895.86	23595895.92	23595895.99	0.2671	0.2121
Mercury	59898-04-01 07:41 G	23598445.72	23598445.82	23598445.92	0.2686	0.1152
Mercury	59900-10-02 23:46 G	23599360.45	23599360.49	23599360.53	0.2658	0.2537
Mercury	59911-04-05 02:38 G	23603196.50	23603196.61	23603196.73	0.2682	0.0066
Mercury	59913-10-06 05:02 G	23604111.56	23604111.71	23604111.86	0.2656	0.0442
Mercury	59924-04-06 21:07 G	23607947.28	23607947.38	23607947.48	0.2675	0.1268
Mercury	59926-10-09 09:50 G	23608862.80	23608862.91	23608863.03	0.2654	0.1664
Venus	59929-05-08 09:50 G	23609804.78	23609804.91	23609805.04	0.2655	0.1667
Mercury	59931-03-31 17:31 G	23610497.17	23610497.23	23610497.30	0.2688	0.2211
Mercury	59937-04-09 14:53 G	23612698.08	23612698.12	23612698.17	0.2670	0.2380
Venus	59937-05-05 20:38 G	23612724.30	23612724.36	23612724.42	0.2655	0.2476
Mercury	59944-04-02 12:58 G	23615247.93	23615248.04	23615248.14	0.2686	0.1018
Mercury	59946-10-04 06:14 G	23616162.69	23616162.76	23616162.84	0.2657	0.2265
Mercury	59957-04-05 07:41 G	23619998.70	23619998.82	23619998.93	0.2682	0.0354
Mercury	59959-10-07 11:31 G	23620913.83	23620913.98	23620914.13	0.2656	0.0043
Mercury	59970-04-08 01:55 G	23624749.48	23624749.58	23624749.67	0.2674	0.1409
Mercury	59972-10-09 16:05 G	23625665.08	23625665.17	23625665.26	0.2652	0.2125
Mercury	59977-03-31 22:34 G	23627299.37	23627299.44	23627299.51	0.2687	0.2064
Mercury	59983-04-10 19:41 G	23629500.30	23629500.32	23629500.35	0.2670	0.2565
Mercury	59990-04-03 18:00 G	23632050.14	23632050.25	23632050.35	0.2685	0.0666
Mercury	59992-10-04 12:43 G	23632964.92	23632965.03	23632965.15	0.2656	0.1696

61ST MILLENNIUM CE

This is a list of transits visible from Moon in the 61st millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	60003-04-06 12:29	G	23636800.91	23636801.02	23636801.13	0.2680	0.0454	
Mercury	60005-10-07 17:46	G	23637716.09	23637716.24	23637716.39	0.2656	0.0294	
Mercury	60016-04-08 06:43	G	23641551.70	23641551.78	23641551.87	0.2673	0.1732	
Mercury	60018-10-10 22:34	G	23642467.39	23642467.44	23642467.48	0.2651	0.2510	
Mercury	60023-04-02 03:50	G	23644101.57	23644101.66	23644101.74	0.2687	0.1751	
Venus	60034-11-08 16:48	G	23648340.05	23648340.20	23648340.35	0.2665	0.1305	
Mercury	60036-04-03 22:48	G	23648852.34	23648852.45	23648852.56	0.2685	0.0534	
Mercury	60038-10-05 19:26	G	23649767.18	23649767.31	23649767.43	0.2656	0.1495	
Mercury	60049-04-06 17:31	G	23653603.12	23653603.23	23653603.34	0.2678	0.0801	
Mercury	60051-10-09 00:00	G	23654518.36	23654518.50	23654518.64	0.2654	0.0811	
Mercury	60062-04-09 11:46	G	23658353.91	23658353.99	23658354.07	0.2673	0.1830	
Mercury	60069-04-02 08:53	G	23660903.78	23660903.87	23660903.96	0.2687	0.1506	
Mercury	60082-04-05 03:50	G	23665654.55	23665654.66	23665654.77	0.2684	0.0224	
Mercury	60084-10-06 01:26	G	23666569.43	23666569.56	23666569.70	0.2657	0.0921	
Mercury	60095-04-07 22:34	G	23670405.33	23670405.44	23670405.54	0.2677	0.0915	
Mercury	60097-10-09 06:29	G	23671320.63	23671320.77	23671320.91	0.2652	0.1024	
Mercury	60102-04-01 18:29	G	23672955.24	23672955.27	23672955.31	0.2687	0.2547	
Mercury	60108-04-10 16:19	G	23675156.12	23675156.18	23675156.25	0.2672	0.2150	
Mercury	60115-04-04 13:55	G	23677705.98	23677706.08	23677706.18	0.2687	0.1299	
Mercury	60128-04-06 08:53	G	23682456.75	23682456.87	23682456.98	0.2682	0.0074	
Mercury	60130-10-08 07:55	G	23683371.69	23683371.83	23683371.97	0.2656	0.0719	
Mercury	60141-04-09 03:22	G	23687207.54	23687207.64	23687207.74	0.2677	0.1232	
Mercury	60143-10-11 12:43	G	23688122.91	23688123.03	23688123.15	0.2652	0.1613	
Mercury	60148-04-01 23:46	G	23689757.44	23689757.49	23689757.54	0.2688	0.2390	
Mercury	60154-04-11 21:07	G	23691958.32	23691958.38	23691958.44	0.2671	0.2230	
Mercury	60161-04-04 18:43	G	23694508.18	23694508.28	23694508.39	0.2687	0.1008	
Mercury	60163-10-06 09:36	G	23695422.83	23695422.90	23695422.96	0.2657	0.2354	

Venus	60172-05-09 02:24 G	23698560.45	23698560.60	23698560.76	0.2665	0.0217
Mercury	60174-04-07 13:55 G	23699258.96	23699259.08	23699259.19	0.2681	0.0218
Mercury	60176-10-08 14:10 G	23700173.94	23700174.09	23700174.24	0.2655	0.0199
Venus	60180-05-06 21:07 G	23701480.30	23701480.38	23701480.45	0.2669	0.2280
Mercury	60187-04-10 08:10 G	23704009.74	23704009.84	23704009.94	0.2676	0.1368
Mercury	60189-10-11 18:58 G	23704925.18	23704925.29	23704925.41	0.2652	0.1799
Mercury	60194-04-03 04:48 G	23706559.63	23706559.70	23706559.77	0.2688	0.2018
Mercury	60200-04-13 01:55 G	23708760.55	23708760.58	23708760.61	0.2670	0.2538
Mercury	60207-04-07 00:00 G	23711310.39	23711310.50	23711310.60	0.2686	0.0855
Mercury	60209-10-07 15:50 G	23712225.07	23712225.16	23712225.26	0.2657	0.1996
Mercury	60220-04-08 18:43 G	23716061.17	23716061.28	23716061.39	0.2680	0.0492
Mercury	60222-10-10 20:38 G	23716976.21	23716976.36	23716976.51	0.2653	0.0137
Mercury	60233-04-11 12:58 G	23720811.95	23720812.04	23720812.13	0.2674	0.1607
Mercury	60235-10-14 01:12 G	23721727.48	23721727.55	23721727.62	0.2652	0.2362
Mercury	60240-04-04 09:50 G	23723361.83	23723361.91	23723361.99	0.2688	0.1908
Mercury	60246-04-14 06:43 G	23725562.78	23725562.78	23725562.78	0.2670	0.2665
Mercury	60253-04-07 05:02 G	23728112.60	23728112.71	23728112.82	0.2684	0.0495
Mercury	60255-10-08 22:05 G	23729027.31	23729027.42	23729027.54	0.2656	0.1541
Mercury	60266-04-09 23:46 G	23732863.38	23732863.49	23732863.60	0.2680	0.0632
Mercury	60268-10-11 03:07 G	23733778.48	23733778.63	23733778.78	0.2653	0.0546
Venus	60269-11-12 20:38 G	23734176.26	23734176.36	23734176.45	0.2672	0.2084
Venus	60277-11-10 13:55 G	23737095.95	23737096.08	23737096.22	0.2675	0.1187
Mercury	60279-04-12 17:46 G	23737614.16	23737614.24	23737614.32	0.2672	0.1834
Mercury	60281-10-14 07:26 G	23738529.78	23738529.81	23738529.84	0.2651	0.2589
Mercury	60286-04-05 14:53 G	23740164.03	23740164.12	23740164.21	0.2688	0.1543
Mercury	60299-04-08 10:05 G	23744914.81	23744914.92	23744915.03	0.2684	0.0373
Mercury	60301-10-10 04:48 G	23745829.57	23745829.70	23745829.83	0.2655	0.1273
Mercury	60312-04-11 04:34 G	23749665.59	23749665.69	23749665.80	0.2679	0.0950
Mercury	60314-10-13 09:22 G	23750580.75	23750580.89	23750581.03	0.2653	0.0942
Mercury	60319-04-05 00:43 G	23752215.51	23752215.53	23752215.54	0.2689	0.2647

Mercury	60325-04-13 22:34 G	23754416.37	23754416.44	23754416.52	0.2672	0.1984
Mercury	60332-04-06 19:55 G	23756966.23	23756966.33	23756966.43	0.2687	0.1389
Mercury	60345-04-09 15:07 G	23761717.01	23761717.13	23761717.24	0.2684	0.0085
Mercury	60347-10-11 11:02 G	23762631.82	23762631.96	23762632.10	0.2654	0.0706
Mercury	60358-04-12 09:22 G	23766467.79	23766467.89	23766468.00	0.2676	0.1053
Mercury	60360-10-13 15:36 G	23767383.02	23767383.15	23767383.28	0.2653	0.1254
Mercury	60365-04-05 05:46 G	23769017.69	23769017.74	23769017.78	0.2689	0.2410
Mercury	60371-04-15 03:22 G	23771218.59	23771218.64	23771218.70	0.2672	0.2284
Mercury	60378-04-08 00:58 G	23773768.44	23773768.54	23773768.65	0.2686	0.1088
Mercury	60380-10-08 12:43 G	23774682.97	23774683.03	23774683.08	0.2656	0.2451
Mercury	60391-04-10 19:55 G	23778519.22	23778519.33	23778519.44	0.2683	0.0103
Mercury	60393-10-11 17:31 G	23779434.08	23779434.23	23779434.37	0.2654	0.0533
Mercury	60404-04-12 14:24 G	23783270.00	23783270.10	23783270.19	0.2675	0.1395
Mercury	60406-10-14 21:50 G	23784185.29	23784185.41	23784185.52	0.2651	0.1746
Mercury	60411-04-06 10:48 G	23785819.88	23785819.95	23785820.01	0.2688	0.2195
Venus	60415-05-12 14:24 G	23787316.98	23787317.10	23787317.22	0.2660	0.1823
Mercury	60417-04-15 08:10 G	23788020.80	23788020.84	23788020.89	0.2671	0.2386
Venus	60423-05-10 02:53 G	23790236.54	23790236.62	23790236.70	0.2657	0.2311
Mercury	60424-04-08 06:00 G	23790570.65	23790570.75	23790570.86	0.2686	0.0857
Mercury	60426-10-09 18:58 G	23791485.21	23791485.29	23791485.38	0.2655	0.2188
Mercury	60437-04-11 00:58 G	23795321.43	23795321.54	23795321.65	0.2681	0.0419
Mercury	60439-10-12 23:31 G	23796236.33	23796236.48	23796236.63	0.2654	0.0076
Mercury	60450-04-13 19:12 G	23800072.21	23800072.30	23800072.39	0.2674	0.1487
Mercury	60452-10-15 04:05 G	23800987.57	23800987.67	23800987.77	0.2650	0.1948
Mercury	60457-04-06 15:50 G	23802622.08	23802622.16	23802622.24	0.2688	0.1870
Mercury	60470-04-09 11:02 G	23807372.85	23807372.96	23807373.07	0.2686	0.0641
Mercury	60472-10-10 01:26 G	23808287.45	23808287.56	23808287.67	0.2655	0.1717
Mercury	60483-04-12 05:46 G	23812123.63	23812123.74	23812123.85	0.2679	0.0600
Mercury	60485-10-13 05:46 G	23813038.59	23813038.74	23813038.89	0.2653	0.0248
Mercury	60496-04-14 00:00 G	23816874.42	23816874.50	23816874.58	0.2674	0.1808

Mercury	60498-10-16 10:19 G	23817789.89	23817789.93	23817789.97	0.2650	0.2534
Mercury	60503-04-08 21:07 G	23819424.29	23819424.38	23819424.46	0.2688	0.1723
Venus	60512-11-15 08:10 G	23822932.80	23822932.84	23822932.88	0.2673	0.2543
Mercury	60516-04-10 16:05 G	23824175.06	23824175.17	23824175.28	0.2685	0.0356
Mercury	60518-10-12 07:41 G	23825089.70	23825089.82	23825089.95	0.2656	0.1393
Venus	60520-11-12 23:17 G	23825852.30	23825852.47	23825852.63	0.2666	0.0405
Mercury	60529-04-13 10:48 G	23828925.84	23828925.95	23828926.06	0.2678	0.0822
Mercury	60531-10-15 12:14 G	23829840.86	23829841.01	23829841.15	0.2651	0.0767
Mercury	60542-04-16 04:48 G	23833676.62	23833676.70	23833676.78	0.2673	0.1932
Mercury	60549-04-09 02:10 G	23836226.49	23836226.59	23836226.68	0.2688	0.1351
Mercury	60562-04-11 21:07 G	23840977.27	23840977.38	23840977.49	0.2683	0.0208
Mercury	60564-10-12 13:55 G	23841891.95	23841892.08	23841892.22	0.2655	0.1014
Mercury	60575-04-14 15:36 G	23845728.05	23845728.15	23845728.26	0.2678	0.1076
Mercury	60577-10-15 18:29 G	23846643.13	23846643.27	23846643.41	0.2651	0.1058
Mercury	60582-04-07 11:46 G	23848277.95	23848277.99	23848278.04	0.2689	0.2432
Mercury	60588-04-16 09:36 G	23850478.84	23850478.90	23850478.96	0.2672	0.2163
Mercury	60595-04-10 06:58 G	23853028.69	23853028.79	23853028.89	0.2688	0.1251
Mercury	60608-04-13 02:10 G	23857779.47	23857779.59	23857779.70	0.2682	0.0173
Mercury	60610-10-14 20:24 G	23858694.20	23858694.35	23858694.49	0.2653	0.0567
Mercury	60621-04-15 20:38 G	23862530.26	23862530.36	23862530.46	0.2677	0.1236
Mercury	60623-10-18 00:58 G	23863445.41	23863445.54	23863445.66	0.2651	0.1499
Mercury	60628-04-08 17:02 G	23865080.15	23865080.21	23865080.27	0.2689	0.2257
Mercury	60634-04-18 14:24 G	23867281.05	23867281.10	23867281.15	0.2671	0.2382
Mercury	60641-04-11 12:00 G	23869830.90	23869831.00	23869831.11	0.2687	0.0885
Mercury	60643-10-12 22:05 G	23870745.34	23870745.42	23870745.50	0.2656	0.2216
Mercury	60654-04-14 06:58 G	23874581.68	23874581.79	23874581.91	0.2681	0.0267
Mercury	60656-10-15 02:38 G	23875496.46	23875496.61	23875496.76	0.2652	0.0322
Venus	60658-05-14 04:05 G	23876072.52	23876072.67	23876072.83	0.2663	0.0671
Venus	60666-05-11 20:24 G	23878992.28	23878992.35	23878992.43	0.2669	0.2317
Mercury	60667-04-17 01:12 G	23879332.46	23879332.55	23879332.65	0.2675	0.1532

Mercury	60669-10-18 06:58 G	23880247.68	23880247.79	23880247.90	0.2651	0.1851
Mercury	60674-04-09 21:50 G	23881882.34	23881882.41	23881882.49	0.2689	0.1975
Mercury	60680-04-18 19:12 G	23884083.27	23884083.30	23884083.33	0.2671	0.2546
Mercury	60687-04-12 17:17 G	23886633.11	23886633.22	23886633.33	0.2685	0.0731
Mercury	60689-10-13 04:19 G	23887547.59	23887547.68	23887547.78	0.2655	0.2037
Mercury	60700-04-15 12:00 G	23891383.89	23891384.00	23891384.11	0.2681	0.0612
Mercury	60702-10-17 08:53 G	23892298.72	23892298.87	23892299.02	0.2652	0.0253
Mercury	60713-04-18 06:14 G	23896134.67	23896134.76	23896134.85	0.2673	0.1621
Mercury	60715-10-20 13:12 G	23897049.96	23897050.05	23897050.13	0.2650	0.2166
Mercury	60720-04-11 02:53 G	23898684.54	23898684.62	23898684.71	0.2689	0.1748
Mercury	60733-04-13 22:19 G	23903435.31	23903435.43	23903435.54	0.2685	0.0438
Mercury	60735-10-15 10:48 G	23904349.83	23904349.95	23904350.07	0.2654	0.1473
Mercury	60746-04-16 16:48 G	23908186.09	23908186.20	23908186.31	0.2680	0.0708
Mercury	60748-10-17 15:22 G	23909100.99	23909101.14	23909101.28	0.2652	0.0425
Venus	60755-11-18 00:14 G	23911688.43	23911688.51	23911688.59	0.2665	0.2293
Mercury	60759-04-19 11:02 G	23912936.89	23912936.96	23912937.04	0.2673	0.1964
Mercury	60761-10-20 19:12 G	23913852.29	23913852.30	23913852.31	0.2648	0.2640
Venus	60763-11-15 14:24 G	23914607.99	23914608.10	23914608.22	0.2669	0.1759
Mercury	60766-04-12 07:55 G	23915486.74	23915486.83	23915486.93	0.2688	0.1525
Mercury	60779-04-15 03:07 G	23920237.52	23920237.63	23920237.75	0.2684	0.0233
Mercury	60781-10-15 17:17 G	23921152.09	23921152.22	23921152.35	0.2653	0.1231
Mercury	60792-04-16 21:50 G	23924988.30	23924988.41	23924988.51	0.2678	0.1015
Mercury	60794-10-18 21:22 G	23925903.25	23925903.39	23925903.53	0.2651	0.0984
Mercury	60799-04-10 17:46 G	23927538.22	23927538.24	23927538.26	0.2690	0.2630
Mercury	60805-04-19 15:50 G	23929739.09	23929739.16	23929739.23	0.2672	0.2049
Mercury	60812-04-12 13:12 G	23932288.95	23932289.05	23932289.15	0.2687	0.1196
Mercury	60825-04-15 08:10 G	23937039.73	23937039.84	23937039.95	0.2684	0.0007
Mercury	60827-10-16 23:31 G	23937954.34	23937954.48	23937954.62	0.2653	0.0743
Mercury	60838-04-18 02:38 G	23941790.51	23941790.61	23941790.71	0.2676	0.1182
Mercury	60840-10-19 03:36 G	23942705.51	23942705.65	23942705.78	0.2650	0.1161

Mercury	60845-04-10 22:48 G	23944340.39	23944340.45	23944340.51	0.2689	0.2255
Mercury	60851-04-20 20:38 G	23946541.31	23946541.36	23946541.41	0.2672	0.2357
Mercury	60858-04-13 18:14 G	23949091.16	23949091.26	23949091.36	0.2687	0.1063
Mercury	60860-10-14 01:26 G	23950005.52	23950005.56	23950005.61	0.2654	0.2513
Mercury	60871-04-16 13:12 G	23953841.93	23953842.05	23953842.16	0.2682	0.0281
Mercury	60873-10-17 05:46 G	23954756.59	23954756.74	23954756.88	0.2653	0.0455
Mercury	60884-04-18 07:41 G	23958592.72	23958592.82	23958592.91	0.2675	0.1420
Mercury	60886-10-20 09:50 G	23959507.79	23959507.91	23959508.02	0.2649	0.1689
Mercury	60891-04-12 03:50 G	23961142.60	23961142.66	23961142.73	0.2689	0.2124
Mercury	60897-04-21 01:26 G	23963343.52	23963343.56	23963343.60	0.2671	0.2481
Venus	60901-05-16 15:50 G	23964829.03	23964829.16	23964829.29	0.2667	0.1459
Mercury	60904-04-14 23:17 G	23965893.36	23965893.47	23965893.58	0.2687	0.0699
Mercury	60906-10-16 07:55 G	23966807.73	23966807.83	23966807.92	0.2654	0.2008
Venus	60909-05-14 07:12 G	23967748.68	23967748.80	23967748.92	0.2663	0.1763
Mercury	60917-04-17 18:00 G	23970644.14	23970644.25	23970644.37	0.2680	0.0423
Mercury	60919-10-19 12:00 G	23971558.85	23971559.00	23971559.15	0.2652	0.0082
Mercury	60930-04-20 12:29 G	23975394.93	23975395.02	23975395.11	0.2675	0.1643
Mercury	60932-10-21 16:05 G	23976310.07	23976310.17	23976310.27	0.2648	0.1951
Mercury	60937-04-13 09:07 G	23977944.79	23977944.88	23977944.96	0.2689	0.1761
Mercury	60950-04-16 04:19 G	23982695.57	23982695.68	23982695.79	0.2686	0.0605
Mercury	60952-10-16 14:10 G	23983609.98	23983610.09	23983610.19	0.2654	0.1813
Mercury	60963-04-18 23:02 G	23987446.35	23987446.46	23987446.57	0.2679	0.0764
Mercury	60965-10-19 18:14 G	23988361.11	23988361.26	23988361.41	0.2650	0.0373
Mercury	60976-04-20 17:17 G	23992197.13	23992197.22	23992197.30	0.2674	0.1804
Mercury	60978-10-22 22:19 G	23993112.37	23993112.43	23993112.49	0.2649	0.2408
Mercury	60983-04-14 14:10 G	23994747.00	23994747.09	23994747.18	0.2689	0.1597
Mercury	60996-04-16 09:22 G	23999497.77	23999497.89	23999498.00	0.2684	0.0246
Mercury	60998-10-17 20:10 G	24000412.21	24000412.34	24000412.47	0.2654	0.1263

62ND MILLENNIUM CE

This is a list of transits visible from Moon in the 62nd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	61006-11-18 02:24	G	24003364.45	24003364.60	24003364.76	0.2670	0.0078	
Mercury	61009-04-20 04:05	G	24004248.56	24004248.67	24004248.77	0.2679	0.0856	
Mercury	61011-10-22 00:29	G	24005163.37	24005163.52	24005163.66	0.2649	0.0613	
Mercury	61016-04-12 23:46	G	24006798.47	24006798.49	24006798.51	0.2689	0.2621	
Mercury	61022-04-22 21:50	G	24008999.34	24008999.41	24008999.48	0.2673	0.2086	
Mercury	61029-04-15 19:12	G	24011549.20	24011549.30	24011549.39	0.2689	0.1309	
Mercury	61042-04-18 14:24	G	24016299.98	24016300.10	24016300.21	0.2683	0.0113	
Mercury	61044-10-19 02:24	G	24017214.47	24017214.60	24017214.74	0.2652	0.1084	
Mercury	61055-04-21 08:53	G	24021050.77	24021050.87	24021050.97	0.2678	0.1204	
Mercury	61057-10-22 06:43	G	24021965.64	24021965.78	24021965.91	0.2649	0.1153	
Mercury	61062-04-14 04:48	G	24023600.66	24023600.70	24023600.75	0.2690	0.2423	
Mercury	61068-04-23 02:53	G	24025801.55	24025801.62	24025801.68	0.2672	0.2178	
Mercury	61075-04-17 00:14	G	24028351.40	24028351.51	24028351.61	0.2688	0.1085	
Mercury	61088-04-18 19:12	G	24033102.19	24033102.30	24033102.42	0.2682	0.0222	
Mercury	61090-10-20 08:53	G	24034016.72	24034016.87	24034017.01	0.2651	0.0528	
Mercury	61101-04-22 13:41	G	24037852.97	24037853.07	24037853.17	0.2676	0.1289	
Mercury	61103-10-24 12:43	G	24038767.90	24038768.03	24038768.16	0.2649	0.1332	
Mercury	61108-04-15 09:50	G	24040402.84	24040402.91	24040402.98	0.2690	0.2086	
Mercury	61114-04-25 07:41	G	24042603.78	24042603.82	24042603.85	0.2671	0.2516	
Mercury	61121-04-18 05:17	G	24045153.61	24045153.72	24045153.83	0.2687	0.0863	

Mercury	61123-10-19 10:48 G	24046067.88	24046067.95	24046068.03	0.2654	0.2245
Mercury	61134-04-21 00:14 G	24049904.40	24049904.51	24049904.62	0.2682	0.0387
Mercury	61136-10-21 15:07 G	24050818.98	24050819.13	24050819.28	0.2651	0.0308
Venus	61144-05-18 08:10 G	24053584.70	24053584.84	24053584.99	0.2660	0.1284
Mercury	61147-04-23 18:29 G	24054655.18	24054655.27	24054655.36	0.2675	0.1590
Mercury	61149-10-24 18:43 G	24055570.18	24055570.28	24055570.39	0.2648	0.1874
Mercury	61154-04-16 14:53 G	24057205.05	24057205.12	24057205.20	0.2690	0.1959
Mercury	61160-04-25 12:29 G	24059405.99	24059406.02	24059406.04	0.2672	0.2595
Mercury	61167-04-19 10:19 G	24061955.82	24061955.93	24061956.04	0.2686	0.0545
Mercury	61169-10-19 17:17 G	24062870.12	24062870.22	24062870.32	0.2652	0.1868
Mercury	61180-04-21 05:02 G	24066706.60	24066706.71	24066706.82	0.2681	0.0624
Mercury	61182-10-22 21:22 G	24067621.24	24067621.39	24067621.54	0.2651	0.0200
Mercury	61193-04-23 23:17 G	24071457.39	24071457.47	24071457.56	0.2674	0.1743
Mercury	61195-10-26 00:58 G	24072372.44	24072372.54	24072372.63	0.2647	0.2044
Mercury	61200-04-16 20:10 G	24074007.24	24074007.34	24074007.43	0.2689	0.1588
Mercury	61213-04-19 15:22 G	24078758.03	24078758.14	24078758.25	0.2686	0.0417
Mercury	61215-10-20 23:31 G	24079672.36	24079672.48	24079672.60	0.2652	0.1560
Mercury	61226-04-22 10:05 G	24083508.81	24083508.92	24083509.02	0.2679	0.0879
Mercury	61228-10-23 03:22 G	24084423.50	24084423.64	24084423.79	0.2650	0.0468
Mercury	61233-04-15 05:46 G	24086058.73	24086058.74	24086058.75	0.2690	0.2668
Mercury	61239-04-25 04:19 G	24088259.60	24088259.68	24088259.75	0.2673	0.1992
Mercury	61241-10-26 07:12 G	24089174.77	24089174.80	24089174.83	0.2647	0.2582
Venus	61241-11-21 06:14 G	24089200.67	24089200.76	24089200.85	0.2660	0.2244
Mercury	61246-04-18 01:12 G	24090809.46	24090809.55	24090809.65	0.2689	0.1450
Venus	61249-11-18 18:00 G	24092120.12	24092120.25	24092120.38	0.2662	0.1512
Mercury	61259-04-20 20:24 G	24095560.23	24095560.35	24095560.46	0.2685	0.0110
Mercury	61261-10-21 05:46 G	24096474.61	24096474.74	24096474.88	0.2652	0.1080
Mercury	61272-04-22 14:53 G	24100311.02	24100311.12	24100311.23	0.2677	0.1009
Mercury	61274-10-24 09:36 G	24101225.75	24101225.90	24101226.04	0.2648	0.0843
Mercury	61279-04-16 10:48 G	24102860.91	24102860.95	24102860.99	0.2690	0.2508

Mercury	61285-04-25 09:07 G	24105061.81	24105061.88	24105061.94	0.2673	0.2195
Mercury	61292-04-18 06:14 G	24107611.66	24107611.76	24107611.87	0.2688	0.1095
Mercury	61305-04-22 01:12 G	24112362.44	24112362.55	24112362.67	0.2683	0.0090
Mercury	61307-10-23 12:00 G	24113276.86	24113277.00	24113277.14	0.2652	0.0863
Mercury	61318-04-24 19:55 G	24117113.23	24117113.33	24117113.42	0.2676	0.1349
Mercury	61320-10-25 15:36 G	24118028.02	24118028.15	24118028.29	0.2647	0.1257
Mercury	61325-04-17 15:50 G	24119663.10	24119663.16	24119663.23	0.2690	0.2206
Mercury	61331-04-27 13:41 G	24121864.02	24121864.07	24121864.12	0.2672	0.2344
Mercury	61338-04-20 11:17 G	24124413.87	24124413.97	24124414.08	0.2688	0.0954
Mercury	61340-10-20 14:24 G	24125328.05	24125328.10	24125328.14	0.2653	0.2500
Mercury	61351-04-23 06:14 G	24129164.65	24129164.76	24129164.87	0.2681	0.0390
Mercury	61353-10-23 18:00 G	24130079.11	24130079.25	24130079.40	0.2650	0.0346
Mercury	61364-04-25 00:43 G	24133915.44	24133915.53	24133915.63	0.2676	0.1435
Mercury	61366-10-26 21:50 G	24134830.29	24134830.41	24134830.53	0.2647	0.1515
Mercury	61371-04-18 21:07 G	24136465.30	24136465.38	24136465.46	0.2690	0.1943
Mercury	61377-04-27 18:29 G	24138666.25	24138666.27	24138666.29	0.2672	0.2630
Mercury	61384-04-20 16:19 G	24141216.07	24141216.18	24141216.29	0.2687	0.0649
Mercury	61386-10-21 20:24 G	24142130.26	24142130.35	24142130.45	0.2653	0.1973
Venus	61387-05-20 14:10 G	24142340.96	24142341.09	24142341.22	0.2672	0.1304
Venus	61395-05-18 08:10 G	24145260.71	24145260.84	24145260.97	0.2670	0.1305
Mercury	61397-04-23 11:17 G	24145966.86	24145966.97	24145967.08	0.2680	0.0512
Mercury	61399-10-25 00:14 G	24146881.36	24146881.51	24146881.66	0.2649	0.0169
Mercury	61410-04-27 05:31 G	24150717.65	24150717.73	24150717.81	0.2675	0.1766
Mercury	61412-10-28 04:05 G	24151632.57	24151632.67	24151632.77	0.2647	0.2022
Mercury	61417-04-20 02:10 G	24153267.50	24153267.59	24153267.68	0.2690	0.1750
Mercury	61430-04-22 21:22 G	24158018.28	24158018.39	24158018.50	0.2686	0.0434
Mercury	61432-10-23 02:38 G	24158932.50	24158932.61	24158932.72	0.2653	0.1760
Mercury	61443-04-25 16:05 G	24162769.07	24162769.17	24162769.28	0.2680	0.0828
Mercury	61445-10-26 06:29 G	24163683.62	24163683.77	24163683.92	0.2648	0.0395
Mercury	61456-04-27 10:19 G	24167519.85	24167519.93	24167520.01	0.2674	0.1849

Mercury	61458-10-29 10:05 G	24168434.84	24168434.92	24168435.00	0.2647	0.2206
Mercury	61463-04-21 07:12 G	24170069.70	24170069.80	24170069.89	0.2690	0.1431
Mercury	61476-04-23 02:24 G	24174820.49	24174820.60	24174820.71	0.2684	0.0224
Mercury	61478-10-24 08:53 G	24175734.74	24175734.87	24175735.00	0.2651	0.1300
Mercury	61489-04-25 21:07 G	24179571.27	24179571.38	24179571.48	0.2679	0.0976
Mercury	61491-10-27 12:43 G	24180485.88	24180486.03	24180486.18	0.2648	0.0585
Venus	61492-11-21 03:36 G	24180876.50	24180876.65	24180876.80	0.2671	0.0387
Mercury	61496-04-18 16:48 G	24182121.16	24182121.20	24182121.24	0.2691	0.2469
Mercury	61502-04-29 15:07 G	24184322.06	24184322.13	24184322.19	0.2673	0.2152
Mercury	61509-04-22 12:14 G	24186871.91	24186872.01	24186872.11	0.2689	0.1289
Mercury	61522-04-25 07:26 G	24191622.70	24191622.81	24191622.92	0.2683	0.0087
Mercury	61524-10-25 15:07 G	24192536.99	24192537.13	24192537.27	0.2649	0.0948
Mercury	61535-04-28 01:55 G	24196373.48	24196373.58	24196373.68	0.2678	0.1210
Mercury	61537-10-28 18:43 G	24197288.15	24197288.28	24197288.42	0.2648	0.1099
Mercury	61542-04-20 21:50 G	24198923.36	24198923.41	24198923.47	0.2691	0.2354
Mercury	61548-04-29 19:55 G	24201124.28	24201124.33	24201124.39	0.2672	0.2289
Mercury	61555-04-23 17:17 G	24203674.11	24203674.22	24203674.33	0.2688	0.0920
Mercury	61557-10-23 17:31 G	24204588.19	24204588.23	24204588.27	0.2653	0.2517
Mercury	61568-04-25 12:29 G	24208424.90	24208425.02	24208425.13	0.2683	0.0227
Mercury	61570-10-26 21:22 G	24209339.25	24209339.39	24209339.53	0.2649	0.0629
Mercury	61581-04-28 06:43 G	24213175.69	24213175.78	24213175.88	0.2676	0.1451
Mercury	61583-10-30 00:58 G	24214090.41	24214090.54	24214090.67	0.2647	0.1345
Mercury	61588-04-21 02:53 G	24215725.55	24215725.62	24215725.70	0.2691	0.1996
Mercury	61594-05-01 00:43 G	24217926.50	24217926.53	24217926.56	0.2673	0.2540
Mercury	61601-04-23 22:34 G	24220476.33	24220476.44	24220476.54	0.2687	0.0803
Mercury	61603-10-24 23:46 G	24221390.42	24221390.49	24221390.56	0.2651	0.2301
Mercury	61614-04-26 17:17 G	24225227.11	24225227.22	24225227.33	0.2682	0.0550
Mercury	61616-10-27 03:36 G	24226141.50	24226141.65	24226141.80	0.2649	0.0193
Mercury	61627-04-29 11:31 G	24229977.89	24229977.98	24229978.07	0.2675	0.1591
Mercury	61629-10-30 06:43 G	24230892.67	24230892.78	24230892.90	0.2646	0.1717

Venus	61630-05-22 14:53 G	24231096.98	24231097.12	24231097.26	0.2660	0.1466
Mercury	61634-04-22 07:55 G	24232527.75	24232527.83	24232527.92	0.2690	0.1837
Venus	61638-05-20 01:12 G	24234016.53	24234016.55	24234016.57	0.2663	0.2641
Mercury	61647-04-25 03:22 G	24237278.53	24237278.64	24237278.76	0.2686	0.0447
Mercury	61649-10-25 06:00 G	24238192.64	24238192.75	24238192.86	0.2651	0.1749
Mercury	61660-04-26 22:19 G	24242029.32	24242029.43	24242029.54	0.2680	0.0648
Mercury	61662-10-28 09:36 G	24242943.75	24242943.90	24242944.05	0.2649	0.0065
Mercury	61673-04-29 16:34 G	24246780.11	24246780.19	24246780.27	0.2675	0.1907
Mercury	61675-10-31 12:58 G	24247694.96	24247695.04	24247695.13	0.2645	0.2120
Mercury	61680-04-22 13:12 G	24249329.96	24249330.05	24249330.14	0.2690	0.1533
Mercury	61693-04-25 08:24 G	24254080.74	24254080.85	24254080.96	0.2686	0.0323
Mercury	61695-10-26 12:14 G	24254994.89	24254995.01	24254995.13	0.2651	0.1585
Mercury	61706-04-29 03:07 G	24258831.52	24258831.63	24258831.73	0.2678	0.0990
Mercury	61708-10-29 15:36 G	24259746.00	24259746.15	24259746.30	0.2647	0.0551
Mercury	61713-04-21 22:34 G	24261381.43	24261381.44	24261381.45	0.2691	0.2662
Mercury	61719-05-01 21:22 G	24263582.31	24263582.39	24263582.46	0.2674	0.1999
Mercury	61721-11-01 19:12 G	24264497.24	24264497.30	24264497.36	0.2646	0.2406
Mercury	61726-04-24 18:14 G	24266132.16	24266132.26	24266132.36	0.2689	0.1282
Venus	61727-11-26 13:12 G	24266713.03	24266713.05	24266713.07	0.2660	0.2630
Venus	61735-11-24 00:14 G	24269632.34	24269632.51	24269632.67	0.2658	0.0615
Mercury	61739-04-27 13:26 G	24270882.95	24270883.06	24270883.17	0.2685	0.0020
Mercury	61741-10-27 18:14 G	24271797.13	24271797.26	24271797.40	0.2651	0.1047
Mercury	61752-04-29 08:10 G	24275633.73	24275633.84	24275633.94	0.2678	0.1099
Mercury	61754-10-30 21:50 G	24276548.26	24276548.41	24276548.55	0.2646	0.0722
Mercury	61759-04-23 03:50 G	24278183.60	24278183.66	24278183.71	0.2691	0.2329
Mercury	61765-05-02 01:55 G	24280384.53	24280384.58	24280384.64	0.2673	0.2314
Mercury	61772-04-24 23:17 G	24282934.37	24282934.47	24282934.58	0.2689	0.1087
Mercury	61785-04-27 18:29 G	24287685.15	24287685.27	24287685.38	0.2682	0.0205
Mercury	61787-10-29 00:29 G	24288599.38	24288599.52	24288599.66	0.2649	0.0843
Mercury	61798-04-30 12:58 G	24292435.94	24292436.04	24292436.13	0.2677	0.1413

Mercury	61800-11-01 03:50 G	24293350.53	24293350.66	24293350.80	0.2646	0.1285
Mercury	61805-04-24 08:53 G	24294985.81	24294985.87	24294985.94	0.2691	0.2176
Mercury	61811-05-04 06:58 G	24297186.74	24297186.79	24297186.83	0.2673	0.2400
Mercury	61818-04-27 04:19 G	24299736.57	24299736.68	24299736.79	0.2689	0.0780
Mercury	61820-10-27 03:07 G	24300650.57	24300650.63	24300650.70	0.2652	0.2350
Mercury	61831-04-29 23:17 G	24304487.36	24304487.47	24304487.59	0.2681	0.0410
Mercury	61833-10-30 06:43 G	24305401.63	24305401.78	24305401.92	0.2648	0.0386
Mercury	61844-05-01 17:46 G	24309238.15	24309238.24	24309238.33	0.2677	0.1549
Mercury	61846-11-02 10:19 G	24310152.80	24310152.93	24310153.05	0.2646	0.1466
Mercury	61851-04-25 14:10 G	24311788.00	24311788.09	24311788.17	0.2691	0.1794
Mercury	61864-04-27 09:22 G	24316538.78	24316538.89	24316539.00	0.2687	0.0638
Mercury	61866-10-28 09:22 G	24317452.80	24317452.89	24317452.98	0.2651	0.2049
Venus	61873-05-24 11:31 G	24319852.86	24319852.98	24319853.11	0.2674	0.1475
Mercury	61877-04-30 04:19 G	24321289.57	24321289.68	24321289.79	0.2681	0.0682
Mercury	61879-10-31 12:58 G	24322203.89	24322204.04	24322204.18	0.2647	0.0103
Venus	61881-05-22 06:29 G	24322772.66	24322772.77	24322772.89	0.2676	0.1707
Mercury	61890-05-02 22:34 G	24326040.35	24326040.44	24326040.52	0.2675	0.1773
Mercury	61892-11-02 16:05 G	24326955.07	24326955.17	24326955.27	0.2646	0.1960
Mercury	61897-04-25 19:12 G	24328590.21	24328590.30	24328590.39	0.2691	0.1691
Mercury	61910-04-29 14:24 G	24333340.99	24333341.10	24333341.22	0.2685	0.0284
Mercury	61912-10-29 15:22 G	24334255.03	24334255.14	24334255.26	0.2650	0.1591
Mercury	61923-05-02 09:22 G	24338091.78	24338091.89	24338091.99	0.2680	0.0831
Mercury	61925-11-01 18:58 G	24339006.14	24339006.29	24339006.44	0.2647	0.0290
Mercury	61936-05-04 03:22 G	24342842.57	24342842.64	24342842.71	0.2674	0.2009
Mercury	61938-11-04 22:05 G	24343757.34	24343757.42	24343757.50	0.2645	0.2199
Mercury	61943-04-28 00:14 G	24345392.41	24345392.51	24345392.61	0.2690	0.1328
Mercury	61956-04-29 19:26 G	24350143.20	24350143.31	24350143.43	0.2684	0.0187
Mercury	61958-10-30 21:50 G	24351057.28	24351057.41	24351057.53	0.2648	0.1386
Mercury	61969-05-02 14:10 G	24354893.98	24354894.09	24354894.19	0.2679	0.1139
Venus	61970-11-28 07:55 G	24355468.78	24355468.83	24355468.88	0.2668	0.2525

Mercury	61971-11-03 00:58 G	24355808.40	24355808.54	24355808.69	0.2647	0.0691
Mercury	61976-04-25 09:50 G	24357443.86	24357443.91	24357443.95	0.2692	0.2439
Venus	61978-11-26 03:22 G	24358388.50	24358388.64	24358388.78	0.2670	0.0895
Mercury	61982-05-05 08:24 G	24359644.78	24359644.85	24359644.91	0.2673	0.2161
Mercury	61984-11-05 04:05 G	24360559.64	24360559.67	24360559.70	0.2645	0.2578
Mercury	61989-04-28 05:17 G	24362194.62	24362194.72	24362194.82	0.2689	0.1164

63RD MILLENNIUM CE

This is a list of transits visible from Moon in the 63rd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	62002-05-01 00:29 G		24366945.41	24366945.52	24366945.63	0.2684	0.0195	
Mercury	62004-10-31 03:50 G		24367859.52	24367859.66	24367859.80	0.2648	0.0833	
Mercury	62015-05-03 18:58 G		24371696.19	24371696.29	24371696.39	0.2677	0.1226	
Mercury	62017-11-03 06:58 G		24372610.65	24372610.79	24372610.93	0.2646	0.0934	
Mercury	62022-04-26 14:53 G		24374246.05	24374246.12	24374246.18	0.2692	0.2193	
Mercury	62028-05-05 13:12 G		24376447.00	24376447.05	24376447.09	0.2673	0.2454	
Mercury	62035-04-29 10:34 G		24378996.83	24378996.94	24378997.04	0.2688	0.0873	
Mercury	62037-10-29 06:29 G		24379910.72	24379910.77	24379910.83	0.2650	0.2453	
Mercury	62048-05-01 05:31 G		24383747.61	24383747.73	24383747.84	0.2683	0.0312	
Mercury	62050-11-01 10:05 G		24384661.78	24384661.92	24384662.06	0.2648	0.0683	
Mercury	62061-05-03 23:46 G		24388498.40	24388498.49	24388498.58	0.2676	0.1573	
Mercury	62063-11-04 12:58 G		24389412.91	24389413.04	24389413.16	0.2645	0.1413	
Mercury	62068-04-26 19:55 G		24391048.25	24391048.33	24391048.41	0.2691	0.1982	

Mercury	62074-05-06	17:46	G	24393249.21	24393249.24	24393249.28	0.2673	0.2545
Mercury	62081-04-29	15:22	G	24395799.03	24395799.14	24395799.26	0.2688	0.0648
Mercury	62083-10-30	12:58	G	24396712.96	24396713.04	24396713.12	0.2649	0.2188
Mercury	62094-05-02	10:19	G	24400549.82	24400549.93	24400550.04	0.2681	0.0608
Mercury	62096-11-01	16:05	G	24401464.02	24401464.17	24401464.32	0.2648	0.0150
Mercury	62107-05-06	04:48	G	24405300.61	24405300.70	24405300.79	0.2676	0.1664
Mercury	62109-11-05	19:12	G	24406215.18	24406215.30	24406215.42	0.2644	0.1588
Mercury	62114-04-29	01:12	G	24407850.46	24407850.55	24407850.64	0.2691	0.1646
Venus	62116-05-26	20:24	G	24408609.22	24408609.35	24408609.48	0.2665	0.1616
Venus	62124-05-24	06:43	G	24411528.65	24411528.78	24411528.90	0.2663	0.1762
Mercury	62127-05-01	20:24	G	24412601.24	24412601.35	24412601.47	0.2687	0.0433
Mercury	62129-10-31	18:58	G	24413515.19	24413515.29	24413515.40	0.2649	0.1775
Mercury	62140-05-03	15:22	G	24417352.03	24417352.14	24417352.25	0.2679	0.0792
Mercury	62142-11-03	22:05	G	24418266.27	24418266.42	24418266.57	0.2646	0.0042
Mercury	62153-05-06	09:36	G	24422102.82	24422102.90	24422102.98	0.2675	0.1977
Mercury	62155-11-07	01:12	G	24423017.47	24423017.55	24423017.64	0.2645	0.2146
Mercury	62160-04-29	06:14	G	24424652.67	24424652.76	24424652.86	0.2690	0.1507
Mercury	62173-05-02	01:26	G	24429403.45	24429403.56	24429403.67	0.2686	0.0143
Mercury	62175-11-02	00:58	G	24430317.42	24430317.54	24430317.67	0.2650	0.1454
Mercury	62186-05-04	20:10	G	24434154.24	24434154.34	24434154.45	0.2679	0.1012
Mercury	62188-11-04	04:05	G	24435068.53	24435068.67	24435068.82	0.2645	0.0500
Mercury	62193-04-27	15:36	G	24436704.12	24436704.15	24436704.18	0.2692	0.2588
Mercury	62199-05-07	14:24	G	24438905.03	24438905.10	24438905.17	0.2675	0.2107
Mercury	62201-11-08	07:26	G	24439819.74	24439819.81	24439819.88	0.2645	0.2320
Mercury	62206-05-01	11:17	G	24441454.87	24441454.97	24441455.08	0.2690	0.1129
Mercury	62219-05-04	06:29	G	24446205.66	24446205.77	24446205.89	0.2684	0.0032
Mercury	62221-11-03	07:12	G	24447119.67	24447119.80	24447119.93	0.2648	0.1136
Venus	62221-11-28	08:24	G	24447144.68	24447144.85	24447145.02	0.2657	0.0096
Mercury	62232-05-06	01:12	G	24450956.45	24450956.55	24450956.65	0.2678	0.1262
Mercury	62234-11-06	10:19	G	24451870.78	24451870.93	24451871.07	0.2645	0.0793

Mercury	62239-04-29 20:53 G	24453506.30	24453506.37	24453506.43	0.2692	0.2226
Mercury	62245-05-08 19:12 G	24455707.24	24455707.30	24455707.35	0.2674	0.2327
Mercury	62252-05-01 16:19 G	24458257.08	24458257.18	24458257.29	0.2690	0.1035
Mercury	62265-05-04 11:31 G	24463007.87	24463007.98	24463008.09	0.2682	0.0357
Mercury	62267-11-04 13:12 G	24463921.90	24463922.05	24463922.19	0.2647	0.0697
Mercury	62278-05-07 06:00 G	24467758.65	24467758.75	24467758.85	0.2678	0.1412
Mercury	62280-11-06 16:19 G	24468673.05	24468673.18	24468673.32	0.2645	0.1173
Mercury	62285-04-30 01:55 G	24470308.51	24470308.58	24470308.65	0.2692	0.2045
Mercury	62291-05-10 00:00 G	24472509.47	24472509.50	24472509.53	0.2673	0.2556
Mercury	62298-05-02 21:22 G	24475059.28	24475059.39	24475059.50	0.2688	0.0669
Mercury	62300-11-02 16:05 G	24475973.09	24475973.17	24475973.25	0.2650	0.2219
Mercury	62311-05-06 16:34 G	24479810.07	24479810.19	24479810.30	0.2682	0.0447
Mercury	62313-11-05 19:12 G	24480724.16	24480724.30	24480724.45	0.2646	0.0504
Mercury	62324-05-08 10:48 G	24484560.86	24484560.95	24484561.04	0.2676	0.1706
Mercury	62326-11-08 22:19 G	24485475.31	24485475.43	24485475.55	0.2645	0.1535
Mercury	62331-05-02 06:58 G	24487110.71	24487110.79	24487110.88	0.2692	0.1763
Mercury	62344-05-04 02:24 G	24491861.49	24491861.60	24491861.72	0.2686	0.0526
Mercury	62346-11-03 22:19 G	24492775.34	24492775.43	24492775.52	0.2649	0.2059
Mercury	62357-05-06 21:22 G	24496612.28	24496612.39	24496612.50	0.2682	0.0802
Venus	62359-05-29 10:48 G	24497364.82	24497364.95	24497365.09	0.2673	0.1387
Mercury	62359-11-07 01:26 G	24497526.41	24497526.56	24497526.71	0.2646	0.0047
Venus	62367-05-27 04:34 G	24500284.63	24500284.69	24500284.76	0.2678	0.2404
Mercury	62370-05-09 15:36 G	24501363.07	24501363.15	24501363.23	0.2675	0.1790
Mercury	62372-11-09 04:19 G	24502277.57	24502277.68	24502277.79	0.2644	0.1778
Mercury	62377-05-02 12:00 G	24503912.91	24503913.00	24503913.10	0.2691	0.1530
Mercury	62390-05-05 07:41 G	24508663.70	24508663.82	24508663.93	0.2686	0.0240
Mercury	62392-11-04 04:19 G	24509577.57	24509577.68	24509577.80	0.2647	0.1541
Mercury	62403-05-08 02:10 G	24513414.49	24513414.59	24513414.70	0.2680	0.0900
Mercury	62405-11-07 07:26 G	24514328.67	24514328.81	24514328.96	0.2646	0.0207
Mercury	62410-04-30 21:36 G	24515964.36	24515964.40	24515964.43	0.2693	0.2541

Mercury	62416-05-09 20:24 G	24518165.29	24518165.35	24518165.42	0.2674	0.2138
Mercury	62418-11-10 10:19 G	24519079.85	24519079.93	24519080.00	0.2644	0.2269
Mercury	62423-05-03 17:17 G	24520715.12	24520715.22	24520715.32	0.2690	0.1313
Mercury	62436-05-05 12:29 G	24525465.91	24525466.02	24525466.14	0.2685	0.0072
Mercury	62438-11-05 10:34 G	24526379.81	24526379.94	24526380.07	0.2647	0.1309
Mercury	62449-05-08 07:12 G	24530216.69	24530216.80	24530216.90	0.2678	0.1198
Mercury	62451-11-08 13:26 G	24531130.92	24531131.06	24531131.21	0.2645	0.0724
Mercury	62456-05-01 02:38 G	24532766.56	24532766.61	24532766.66	0.2693	0.2426
Venus	62456-12-01 10:34 G	24532980.84	24532980.94	24532981.03	0.2661	0.2129
Mercury	62462-05-11 01:26 G	24534967.50	24534967.56	24534967.62	0.2674	0.2222
Mercury	62464-11-10 16:34 G	24535882.13	24535882.19	24535882.24	0.2644	0.2450
Venus	62464-11-29 03:07 G	24535900.48	24535900.63	24535900.78	0.2664	0.0772
Mercury	62469-05-03 22:19 G	24537517.33	24537517.43	24537517.54	0.2689	0.0978
Mercury	62482-05-06 17:31 G	24542268.11	24542268.23	24542268.34	0.2685	0.0209
Mercury	62484-11-05 16:48 G	24543182.06	24543182.20	24543182.33	0.2647	0.0870
Mercury	62495-05-09 12:00 G	24547018.90	24547019.00	24547019.10	0.2677	0.1361
Mercury	62497-11-08 19:26 G	24547933.17	24547933.31	24547933.45	0.2644	0.0897
Mercury	62502-05-03 07:41 G	24549568.75	24549568.82	24549568.90	0.2692	0.2043
Mercury	62508-05-12 06:14 G	24551769.72	24551769.76	24551769.79	0.2674	0.2527
Mercury	62515-05-06 03:22 G	24554319.54	24554319.64	24554319.75	0.2689	0.0861
Mercury	62517-11-04 19:41 G	24555233.28	24555233.32	24555233.36	0.2648	0.2518
Mercury	62528-05-07 22:19 G	24559070.32	24559070.43	24559070.55	0.2683	0.0481
Mercury	62530-11-07 22:48 G	24559984.30	24559984.45	24559984.59	0.2647	0.0580
Mercury	62541-05-10 17:02 G	24563821.12	24563821.21	24563821.30	0.2677	0.1601
Mercury	62543-11-11 01:26 G	24564735.43	24564735.56	24564735.69	0.2643	0.1370
Mercury	62548-05-03 12:58 G	24566370.96	24566371.04	24566371.12	0.2692	0.1908
Mercury	62554-05-13 10:48 G	24568571.94	24568571.95	24568571.96	0.2674	0.2655
Mercury	62561-05-06 08:24 G	24571121.74	24571121.85	24571121.97	0.2688	0.0487
Mercury	62563-11-06 01:55 G	24572035.48	24572035.58	24572035.67	0.2648	0.2018
Mercury	62574-05-09 03:22 G	24575872.53	24575872.64	24575872.75	0.2681	0.0605

Mercury	62576-11-08 04:48 G	24576786.55	24576786.70	24576786.84	0.2646	0.0264
Mercury	62587-05-11 21:50 G	24580623.33	24580623.41	24580623.49	0.2677	0.1823
Mercury	62589-11-11 07:41 G	24581537.70	24581537.82	24581537.93	0.2644	0.1636
Mercury	62594-05-04 18:00 G	24583173.16	24583173.25	24583173.35	0.2691	0.1552
Venus	62602-05-31 22:48 G	24586121.35	24586121.45	24586121.54	0.2671	0.2108
Mercury	62607-05-08 13:26 G	24587923.95	24587924.06	24587924.17	0.2687	0.0394
Mercury	62609-11-07 07:55 G	24588837.72	24588837.83	24588837.93	0.2649	0.1857
Venus	62610-05-29 11:17 G	24589040.82	24589040.97	24589041.12	0.2667	0.1076
Mercury	62620-05-10 08:24 G	24592674.74	24592674.85	24592674.95	0.2680	0.0956
Mercury	62622-11-10 10:34 G	24593588.79	24593588.94	24593589.09	0.2644	0.0180
Mercury	62627-05-04 03:22 G	24595224.63	24595224.64	24595224.64	0.2693	0.2683
Mercury	62633-05-13 02:38 G	24597425.53	24597425.61	24597425.69	0.2676	0.1976
Mercury	62635-11-13 13:41 G	24598339.97	24598340.07	24598340.16	0.2644	0.2029
Mercury	62640-05-05 23:17 G	24599975.37	24599975.47	24599975.56	0.2691	0.1393
Mercury	62653-05-08 18:29 G	24604726.15	24604726.27	24604726.38	0.2685	0.0038
Mercury	62655-11-08 13:55 G	24605639.95	24605640.08	24605640.20	0.2648	0.1327
Mercury	62666-05-11 13:12 G	24609476.95	24609477.05	24609477.16	0.2680	0.1040
Mercury	62668-11-10 16:48 G	24610391.05	24610391.20	24610391.35	0.2644	0.0376
Mercury	62673-05-04 08:38 G	24612026.81	24612026.86	24612026.91	0.2693	0.2412
Mercury	62679-05-14 07:26 G	24614227.75	24614227.81	24614227.87	0.2675	0.2263
Mercury	62681-11-13 19:26 G	24615142.25	24615142.31	24615142.37	0.2644	0.2370
Mercury	62686-05-07 04:05 G	24616777.57	24616777.67	24616777.78	0.2691	0.1101
Mercury	62699-05-09 23:31 G	24621528.36	24621528.48	24621528.59	0.2684	0.0103
Mercury	62701-11-09 19:55 G	24622442.20	24622442.33	24622442.46	0.2646	0.1169
Venus	62707-12-03 15:07 G	24624656.97	24624657.13	24624657.29	0.2660	0.0108
Mercury	62712-05-12 18:14 G	24626279.16	24626279.26	24626279.35	0.2679	0.1388
Mercury	62714-11-12 22:48 G	24627193.31	24627193.45	24627193.59	0.2644	0.0900
Mercury	62719-05-06 13:41 G	24628829.01	24628829.07	24628829.14	0.2693	0.2219
Mercury	62725-05-15 12:14 G	24631029.96	24631030.01	24631030.06	0.2674	0.2349
Mercury	62727-11-16 01:26 G	24631944.54	24631944.56	24631944.58	0.2644	0.2615

Mercury	62732-05-08 09:22 G	24633579.78	24633579.89	24633580.00	0.2690	0.0876
Mercury	62734-11-07 23:02 G	24634493.46	24634493.46	24634493.47	0.2650	0.2647
Mercury	62745-05-11 04:34 G	24638330.57	24638330.69	24638330.80	0.2683	0.0412
Mercury	62747-11-11 02:10 G	24639244.44	24639244.59	24639244.73	0.2645	0.0653
Mercury	62758-05-13 23:02 G	24643081.36	24643081.46	24643081.55	0.2678	0.1472
Mercury	62760-11-13 04:48 G	24643995.56	24643995.70	24643995.84	0.2644	0.1055
Mercury	62765-05-06 18:43 G	24645631.20	24645631.28	24645631.36	0.2693	0.1879
Mercury	62778-05-09 14:24 G	24650381.99	24650382.10	24650382.21	0.2688	0.0660
Mercury	62780-11-08 05:17 G	24651295.64	24651295.72	24651295.79	0.2648	0.2248
Mercury	62791-05-12 09:36 G	24655132.78	24655132.90	24655133.01	0.2683	0.0591
Mercury	62793-11-11 08:10 G	24656046.69	24656046.84	24656046.98	0.2645	0.0452
Mercury	62804-05-14 03:50 G	24659883.57	24659883.66	24659883.74	0.2676	0.1770
Mercury	62806-11-14 10:34 G	24660797.82	24660797.94	24660798.07	0.2643	0.1565
Mercury	62811-05-08 00:00 G	24662433.41	24662433.50	24662433.58	0.2692	0.1756
Mercury	62824-05-09 19:26 G	24667184.20	24667184.31	24667184.43	0.2687	0.0337
Mercury	62826-11-09 11:17 G	24668097.87	24668097.97	24668098.07	0.2647	0.1880
Mercury	62837-05-12 14:24 G	24671934.99	24671935.10	24671935.21	0.2682	0.0816
Mercury	62839-11-12 14:10 G	24672848.94	24672849.09	24672849.24	0.2645	0.0011
Venus	62845-06-01 12:29 G	24674876.87	24674877.02	24674877.17	0.2670	0.1017
Mercury	62850-05-15 08:38 G	24676685.78	24676685.86	24676685.94	0.2676	0.1921
Mercury	62852-11-14 16:34 G	24677600.08	24677600.19	24677600.30	0.2643	0.1728
Venus	62853-05-30 02:53 G	24677796.59	24677796.62	24677796.66	0.2677	0.2589
Mercury	62857-05-08 05:02 G	24679235.61	24679235.71	24679235.81	0.2691	0.1375
Mercury	62870-05-11 00:29 G	24683986.41	24683986.52	24683986.64	0.2687	0.0218
Mercury	62872-11-09 17:31 G	24684900.11	24684900.23	24684900.34	0.2646	0.1623
Mercury	62883-05-13 19:12 G	24688737.20	24688737.30	24688737.41	0.2680	0.1066
Mercury	62885-11-12 20:10 G	24689651.19	24689651.34	24689651.49	0.2644	0.0275
Mercury	62890-05-06 14:24 G	24691287.05	24691287.10	24691287.14	0.2694	0.2470
Mercury	62896-05-15 13:41 G	24693488.00	24693488.07	24693488.13	0.2676	0.2172
Mercury	62898-11-15 22:48 G	24694402.37	24694402.45	24694402.53	0.2643	0.2224

Mercury	62903-05-10 10:19 G	24696037.82	24696037.93	24696038.03	0.2690	0.1248
Mercury	62916-05-12 05:31 G	24700788.61	24700788.73	24700788.84	0.2686	0.0145
Mercury	62918-11-11 23:31 G	24701702.35	24701702.48	24701702.61	0.2646	0.1152
Mercury	62929-05-15 00:14 G	24705539.40	24705539.51	24705539.61	0.2678	0.1197
Mercury	62931-11-15 01:55 G	24706453.44	24706453.58	24706453.73	0.2643	0.0589
Mercury	62936-05-07 19:26 G	24708089.25	24708089.31	24708089.37	0.2693	0.2308
Mercury	62942-05-17 18:29 G	24710290.22	24710290.27	24710290.32	0.2675	0.2374
Mercury	62944-11-17 04:48 G	24711204.65	24711204.70	24711204.75	0.2643	0.2469
Mercury	62949-05-10 15:22 G	24712840.03	24712840.14	24712840.25	0.2690	0.0885
Venus	62950-12-04 05:46 G	24713412.58	24713412.74	24713412.90	0.2658	0.0245
Mercury	62951-11-10 02:38 G	24713753.61	24713753.61	24713753.62	0.2648	0.2643
Mercury	62962-05-13 10:34 G	24717590.82	24717590.94	24717591.05	0.2684	0.0247
Mercury	62964-11-12 05:31 G	24718504.59	24718504.73	24718504.86	0.2646	0.0976
Mercury	62975-05-16 05:02 G	24722341.62	24722341.71	24722341.81	0.2678	0.1530
Mercury	62977-11-15 07:55 G	24723255.69	24723255.83	24723255.97	0.2642	0.1006
Mercury	62982-05-09 00:43 G	24724891.45	24724891.53	24724891.60	0.2693	0.2008
Mercury	62988-05-17 23:02 G	24727092.43	24727092.46	24727092.50	0.2675	0.2521
Mercury	62995-05-11 20:24 G	24729642.24	24729642.35	24729642.46	0.2690	0.0753
Mercury	62997-11-10 08:53 G	24730555.82	24730555.87	24730555.92	0.2648	0.2474

64TH MILLENNIUM CE

This is a list of transits visible from Moon in the 64th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
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Mercury	63008-05-14	15:22	G	24734393.03	24734393.14	24734393.25	0.2682	0.0587
Mercury	63010-11-14	11:17	G	24735306.83	24735306.97	24735307.12	0.2645	0.0472
Mercury	63021-05-17	10:05	G	24739143.82	24739143.92	24739144.01	0.2678	0.1620
Mercury	63023-11-17	13:55	G	24740057.95	24740058.08	24740058.22	0.2643	0.1233
Mercury	63028-05-10	05:46	G	24741693.66	24741693.74	24741693.83	0.2692	0.1740
Mercury	63041-05-13	01:26	G	24746444.44	24746444.56	24746444.67	0.2689	0.0451
Mercury	63043-11-12	14:53	G	24747358.02	24747358.12	24747358.21	0.2648	0.1975
Mercury	63054-05-15	20:24	G	24751195.24	24751195.35	24751195.46	0.2681	0.0695
Mercury	63056-11-14	17:31	G	24752109.08	24752109.23	24752109.37	0.2644	0.0324
Mercury	63067-05-18	14:53	G	24755946.04	24755946.12	24755946.19	0.2677	0.1950
Mercury	63069-11-17	20:10	G	24756860.23	24756860.34	24756860.45	0.2643	0.1729
Mercury	63074-05-11	11:02	G	24758495.87	24758495.96	24758496.05	0.2693	0.1545
Mercury	63087-05-14	06:29	G	24763246.65	24763246.77	24763246.88	0.2687	0.0243
Venus	63088-06-03	21:22	G	24763633.32	24763633.39	24763633.46	0.2678	0.2363
Mercury	63089-11-12	20:53	G	24764160.26	24764160.37	24764160.48	0.2647	0.1775
Venus	63096-06-01	13:41	G	24766552.94	24766553.07	24766553.21	0.2675	0.1280
Mercury	63100-05-17	01:12	G	24767997.45	24767997.55	24767997.66	0.2681	0.1022
Mercury	63102-11-16	23:31	G	24768911.33	24768911.48	24768911.62	0.2643	0.0220
Mercury	63107-05-10	20:10	G	24770547.33	24770547.34	24770547.36	0.2693	0.2659
Mercury	63113-05-19	19:26	G	24772748.24	24772748.31	24772748.39	0.2676	0.2029
Mercury	63115-11-20	01:55	G	24773662.48	24773662.58	24773662.69	0.2643	0.1890
Mercury	63120-05-12	16:05	G	24775298.07	24775298.17	24775298.27	0.2692	0.1224
Mercury	63133-05-15	11:31	G	24780048.86	24780048.98	24780049.09	0.2685	0.0060
Mercury	63135-11-15	02:53	G	24780962.49	24780962.62	24780962.74	0.2645	0.1372
Mercury	63146-05-18	06:14	G	24784799.66	24784799.76	24784799.86	0.2681	0.1163
Mercury	63148-11-17	05:31	G	24785713.58	24785713.73	24785713.88	0.2643	0.0389
Mercury	63153-05-11	01:26	G	24787349.50	24787349.56	24787349.62	0.2694	0.2273
Mercury	63159-05-21	00:29	G	24789550.46	24789550.52	24789550.57	0.2675	0.2337
Mercury	63161-11-20	07:41	G	24790464.76	24790464.82	24790464.89	0.2643	0.2395
Mercury	63166-05-13	21:07	G	24792100.28	24792100.38	24792100.49	0.2691	0.1088

Mercury	63179-05-16 16:34 G	24796851.07	24796851.19	24796851.30	0.2685	0.0294
Mercury	63181-11-15 08:53 G	24797764.74	24797764.87	24797765.01	0.2644	0.1026
Mercury	63192-05-18 11:02 G	24801601.86	24801601.96	24801602.06	0.2679	0.1399
Venus	63193-12-06 18:00 G	24802169.10	24802169.25	24802169.40	0.2662	0.0164
Mercury	63194-11-18 11:31 G	24802515.84	24802515.98	24802516.12	0.2643	0.0857
Mercury	63199-05-12 06:29 G	24804151.71	24804151.77	24804151.84	0.2694	0.2161
Venus	63201-12-04 10:48 G	24805088.89	24805088.95	24805089.02	0.2655	0.2390
Mercury	63205-05-21 05:17 G	24806352.68	24806352.72	24806352.76	0.2675	0.2472
Mercury	63207-11-21 13:41 G	24807267.04	24807267.07	24807267.11	0.2643	0.2557
Mercury	63212-05-14 02:10 G	24808902.48	24808902.59	24808902.70	0.2689	0.0717
Mercury	63214-11-13 12:14 G	24809815.96	24809816.01	24809816.06	0.2648	0.2475
Mercury	63225-05-16 21:22 G	24813653.28	24813653.39	24813653.51	0.2684	0.0414
Mercury	63227-11-16 14:53 G	24814566.98	24814567.12	24814567.26	0.2644	0.0745
Mercury	63238-05-19 15:50 G	24818404.07	24818404.16	24818404.25	0.2678	0.1637
Mercury	63240-11-18 17:17 G	24819318.09	24819318.22	24819318.36	0.2643	0.1105
Mercury	63245-05-12 11:31 G	24820953.90	24820953.98	24820954.07	0.2694	0.1795
Mercury	63258-05-15 07:26 G	24825704.69	24825704.81	24825704.92	0.2688	0.0609
Mercury	63260-11-13 18:14 G	24826618.19	24826618.26	24826618.33	0.2646	0.2296
Mercury	63271-05-18 02:24 G	24830455.49	24830455.60	24830455.71	0.2683	0.0744
Mercury	63273-11-16 20:53 G	24831369.23	24831369.37	24831369.52	0.2644	0.0319
Mercury	63284-05-19 20:53 G	24835206.28	24835206.37	24835206.45	0.2677	0.1774
Mercury	63286-11-19 23:02 G	24836120.34	24836120.46	24836120.59	0.2642	0.1426
Mercury	63291-05-13 16:48 G	24837756.11	24837756.20	24837756.29	0.2693	0.1639
Mercury	63304-05-16 12:14 G	24842506.90	24842507.01	24842507.13	0.2688	0.0261
Mercury	63306-11-16 00:29 G	24843420.41	24843420.52	24843420.62	0.2645	0.1765
Mercury	63317-05-19 07:12 G	24847257.69	24847257.80	24847257.91	0.2681	0.0837
Mercury	63319-11-19 02:53 G	24848171.47	24848171.62	24848171.77	0.2644	0.0114
Mercury	63324-05-12 01:55 G	24849807.57	24849807.58	24849807.59	0.2695	0.2671
Mercury	63330-05-22 01:41 G	24852008.50	24852008.57	24852008.64	0.2677	0.2091
Venus	63331-06-06 17:31 G	24852389.08	24852389.23	24852389.37	0.2668	0.1315

Mercury	63332-11-21 05:02 G	24852922.61	24852922.71	24852922.82	0.2642	0.1834
Mercury	63337-05-14 21:50 G	24854558.31	24854558.41	24854558.51	0.2692	0.1338
Venus	63339-06-04 03:50 G	24855308.55	24855308.66	24855308.76	0.2672	0.2011
Mercury	63350-05-17 17:17 G	24859309.11	24859309.22	24859309.34	0.2688	0.0146
Mercury	63352-11-16 06:29 G	24860222.66	24860222.77	24860222.89	0.2645	0.1614
Mercury	63363-05-20 12:14 G	24864059.90	24864060.01	24864060.11	0.2680	0.1182
Mercury	63365-11-19 08:38 G	24864973.72	24864973.86	24864974.01	0.2643	0.0375
Mercury	63370-05-13 07:12 G	24866609.75	24866609.80	24866609.84	0.2694	0.2470
Mercury	63376-05-22 06:43 G	24868810.71	24868810.78	24868810.84	0.2677	0.2186
Mercury	63378-11-22 11:17 G	24869724.88	24869724.97	24869725.06	0.2642	0.2080
Mercury	63383-05-16 03:07 G	24871360.52	24871360.63	24871360.73	0.2691	0.1084
Mercury	63396-05-17 22:19 G	24876111.32	24876111.43	24876111.54	0.2686	0.0191
Mercury	63398-11-17 12:29 G	24877024.89	24877025.02	24877025.15	0.2645	0.1103
Mercury	63409-05-21 17:17 G	24880862.12	24880862.22	24880862.32	0.2679	0.1280
Mercury	63411-11-21 14:38 G	24881775.97	24881776.11	24881776.26	0.2642	0.0528
Mercury	63416-05-14 12:15 G	24883411.94	24883412.01	24883412.08	0.2694	0.2132
Mercury	63422-05-24 11:17 G	24885612.93	24885612.97	24885613.01	0.2676	0.2498
Mercury	63424-11-23 17:17 G	24886527.18	24886527.22	24886527.25	0.2643	0.2553
Mercury	63429-05-17 08:10 G	24888162.73	24888162.84	24888162.95	0.2691	0.0880
Venus	63436-12-08 12:00 G	24890924.83	24890925.00	24890925.17	0.2652	0.0023
Mercury	63442-05-20 03:22 G	24892913.53	24892913.64	24892913.75	0.2684	0.0381
Mercury	63444-11-18 18:29 G	24893827.13	24893827.27	24893827.40	0.2644	0.0921
Mercury	63455-05-22 22:05 G	24897664.33	24897664.42	24897664.51	0.2679	0.1604
Mercury	63457-11-21 20:39 G	24898578.23	24898578.36	24898578.50	0.2641	0.1051
Mercury	63462-05-15 17:31 G	24900214.15	24900214.23	24900214.31	0.2693	0.1982
Mercury	63468-05-24 16:05 G	24902415.14	24902415.17	24902415.20	0.2676	0.2578
Mercury	63475-05-18 13:12 G	24904964.94	24904965.05	24904965.16	0.2690	0.0585
Mercury	63477-11-16 22:05 G	24905878.35	24905878.42	24905878.48	0.2647	0.2313
Mercury	63488-05-20 08:24 G	24909715.74	24909715.85	24909715.96	0.2683	0.0598
Mercury	63490-11-20 00:15 G	24910629.37	24910629.51	24910629.65	0.2643	0.0515

Mercury	63501-05-24 02:53 G	24914466.54	24914466.62	24914466.71	0.2679	0.1736
Mercury	63503-11-24 02:39 G	24915380.48	24915380.61	24915380.75	0.2642	0.1226
Mercury	63508-05-16 22:34 G	24917016.35	24917016.44	24917016.54	0.2693	0.1602
Mercury	63521-05-19 18:15 G	24921767.15	24921767.26	24921767.37	0.2689	0.0438
Mercury	63523-11-19 04:05 G	24922680.58	24922680.67	24922680.76	0.2646	0.2049
Mercury	63534-05-22 13:27 G	24926517.95	24926518.06	24926518.17	0.2682	0.0876
Mercury	63536-11-21 06:15 G	24927431.61	24927431.76	24927431.91	0.2642	0.0197
Mercury	63547-05-25 07:41 G	24931268.74	24931268.82	24931268.90	0.2677	0.1964
Mercury	63549-11-24 08:39 G	24932182.74	24932182.86	24932182.97	0.2642	0.1675
Mercury	63554-05-18 03:36 G	24933818.56	24933818.65	24933818.75	0.2693	0.1504
Mercury	63567-05-20 23:17 G	24938569.35	24938569.47	24938569.59	0.2687	0.0075
Mercury	63569-11-19 09:51 G	24939482.80	24939482.91	24939483.02	0.2645	0.1609
Venus	63574-06-08 17:46 G	24941145.13	24941145.24	24941145.36	0.2682	0.1743
Mercury	63580-05-22 18:15 G	24943320.16	24943320.26	24943320.37	0.2682	0.1018
Venus	63582-06-06 12:29 G	24944064.91	24944065.02	24944065.13	0.2682	0.1820
Mercury	63582-11-22 12:15 G	24944233.87	24944234.01	24944234.16	0.2642	0.0134
Mercury	63587-05-16 12:58 G	24945870.01	24945870.04	24945870.08	0.2695	0.2533
Mercury	63593-05-25 12:29 G	24948070.96	24948071.02	24948071.09	0.2676	0.2192
Mercury	63595-11-25 14:24 G	24948985.00	24948985.10	24948985.20	0.2642	0.1923
Mercury	63600-05-18 08:53 G	24950620.76	24950620.87	24950620.97	0.2692	0.1127
Mercury	63613-05-21 04:19 G	24955371.57	24955371.68	24955371.80	0.2686	0.0073
Mercury	63615-11-20 15:51 G	24956285.04	24956285.16	24956285.29	0.2643	0.1435
Mercury	63626-05-23 23:03 G	24960122.36	24960122.46	24960122.56	0.2681	0.1328
Mercury	63628-11-22 18:15 G	24961036.11	24961036.26	24961036.40	0.2642	0.0508
Mercury	63633-05-16 18:15 G	24962672.19	24962672.26	24962672.32	0.2695	0.2251
Mercury	63639-05-26 17:31 G	24964873.17	24964873.23	24964873.28	0.2676	0.2345
Mercury	63641-11-25 20:10 G	24965787.27	24965787.34	24965787.42	0.2642	0.2265
Mercury	63646-05-19 13:55 G	24967422.97	24967423.08	24967423.19	0.2691	0.0975
Mercury	63659-05-22 09:22 G	24972173.78	24972173.89	24972174.00	0.2686	0.0393
Mercury	63661-11-20 21:51 G	24973087.28	24973087.41	24973087.55	0.2643	0.0908

Mercury	63672-05-24 04:05 G	24976924.57	24976924.67	24976924.76	0.2679	0.1416
Mercury	63674-11-24 00:00 G	24977838.36	24977838.50	24977838.65	0.2642	0.0727
Mercury	63679-05-17 23:17 G	24979474.39	24979474.47	24979474.54	0.2695	0.2008
Venus	63679-12-10 18:29 G	24979681.13	24979681.27	24979681.42	0.2662	0.0537
Mercury	63685-05-26 22:19 G	24981675.42	24981675.43	24981675.44	0.2676	0.2639
Venus	63687-12-08 13:55 G	24982601.00	24982601.08	24982601.17	0.2658	0.2207
Mercury	63692-05-19 19:12 G	24984225.19	24984225.30	24984225.41	0.2690	0.0672
Mercury	63694-11-19 01:41 G	24985138.51	24985138.57	24985138.62	0.2645	0.2410
Mercury	63705-05-23 14:24 G	24988975.98	24988976.10	24988976.21	0.2685	0.0493
Mercury	63707-11-23 04:05 G	24989889.53	24989889.67	24989889.81	0.2643	0.0764
Mercury	63718-05-26 08:53 G	24993726.78	24993726.87	24993726.95	0.2678	0.1759
Mercury	63720-11-25 05:46 G	24994640.61	24994640.74	24994640.88	0.2641	0.1199
Mercury	63725-05-19 04:19 G	24996276.60	24996276.68	24996276.77	0.2694	0.1789
Mercury	63738-05-22 00:15 G	25001027.40	25001027.51	25001027.62	0.2689	0.0446
Mercury	63740-11-20 07:41 G	25001940.74	25001940.82	25001940.90	0.2644	0.2167
Mercury	63751-05-24 19:12 G	25005778.19	25005778.30	25005778.41	0.2683	0.0802
Mercury	63753-11-23 09:51 G	25006691.77	25006691.91	25006692.06	0.2643	0.0258
Mercury	63764-05-26 13:55 G	25010528.99	25010529.08	25010529.16	0.2678	0.1849
Mercury	63766-11-26 12:00 G	25011442.87	25011443.00	25011443.12	0.2641	0.1351
Mercury	63771-05-20 09:36 G	25013078.81	25013078.90	25013079.00	0.2693	0.1450
Mercury	63784-05-22 05:17 G	25017829.60	25017829.72	25017829.83	0.2689	0.0227
Mercury	63786-11-21 13:41 G	25018742.97	25018743.07	25018743.18	0.2644	0.1784
Mercury	63797-05-25 00:15 G	25022580.40	25022580.51	25022580.61	0.2681	0.0975
Mercury	63799-11-24 15:36 G	25023494.01	25023494.15	25023494.30	0.2642	0.0119
Mercury	63804-05-18 18:43 G	25025130.24	25025130.28	25025130.31	0.2695	0.2534
Mercury	63810-05-28 18:43 G	25027331.21	25027331.28	25027331.34	0.2678	0.2171
Mercury	63812-11-27 17:46 G	25028245.14	25028245.24	25028245.35	0.2641	0.1883
Mercury	63817-05-21 14:53 G	25029881.02	25029881.12	25029881.22	0.2692	0.1317
Venus	63817-06-10 22:34 G	25029901.35	25029901.44	25029901.53	0.2670	0.2249
Venus	63825-06-08 07:41 G	25032820.69	25032820.82	25032820.96	0.2671	0.1604

Mercury	63830-05-24 10:19 G	25034631.81	25034631.93	25034632.04	0.2688	0.0103
Mercury	63832-11-22 19:41 G	25035545.20	25035545.32	25035545.44	0.2645	0.1475
Mercury	63843-05-27 05:17 G	25039382.61	25039382.72	25039382.82	0.2680	0.1208
Mercury	63845-11-25 21:36 G	25040296.25	25040296.40	25040296.54	0.2641	0.0328
Mercury	63850-05-19 23:46 G	25041932.45	25041932.49	25041932.54	0.2695	0.2411
Mercury	63856-05-28 23:31 G	25044133.42	25044133.48	25044133.54	0.2677	0.2295
Mercury	63858-11-29 00:00 G	25045047.40	25045047.50	25045047.59	0.2641	0.2045
Mercury	63863-05-22 19:55 G	25046683.22	25046683.33	25046683.44	0.2692	0.0935
Mercury	63876-05-24 15:07 G	25051434.02	25051434.13	25051434.25	0.2686	0.0212
Mercury	63878-11-24 01:27 G	25052347.43	25052347.56	25052347.69	0.2644	0.1188
Mercury	63889-05-27 10:05 G	25056184.82	25056184.92	25056185.02	0.2680	0.1447
Mercury	63891-11-27 03:36 G	25057098.50	25057098.65	25057098.79	0.2640	0.0618
Mercury	63896-05-20 05:03 G	25058734.64	25058734.71	25058734.79	0.2694	0.2037
Mercury	63902-05-31 04:19 G	25060935.64	25060935.68	25060935.71	0.2676	0.2524
Mercury	63904-11-30 05:31 G	25061849.69	25061849.73	25061849.78	0.2642	0.2488
Mercury	63909-05-24 00:58 G	25063485.43	25063485.54	25063485.65	0.2692	0.0845
Mercury	63922-05-26 20:10 G	25068236.23	25068236.34	25068236.46	0.2684	0.0548
Venus	63922-12-13 21:36 G	25068437.23	25068437.40	25068437.57	0.2649	0.0330
Mercury	63924-11-25 07:27 G	25069149.67	25069149.81	25069149.95	0.2642	0.0767
Mercury	63935-05-29 15:07 G	25072987.03	25072987.13	25072987.22	0.2680	0.1610
Mercury	63937-11-28 09:36 G	25073900.76	25073900.90	25073901.04	0.2641	0.0962
Mercury	63942-05-22 10:19 G	25075536.85	25075536.93	25075537.01	0.2695	0.1860
Mercury	63955-05-25 06:00 G	25080287.64	25080287.75	25080287.86	0.2690	0.0469
Mercury	63957-11-23 11:17 G	25081200.89	25081200.97	25081201.05	0.2646	0.2172
Mercury	63968-05-27 01:12 G	25085038.44	25085038.55	25085038.67	0.2684	0.0635
Mercury	63970-11-26 13:27 G	25085951.92	25085952.06	25085952.20	0.2641	0.0591
Mercury	63981-05-29 19:41 G	25089789.24	25089789.32	25089789.40	0.2679	0.1899
Mercury	63983-11-29 15:22 G	25090703.01	25090703.14	25090703.27	0.2641	0.1322
Mercury	63988-05-22 15:22 G	25092339.05	25092339.14	25092339.24	0.2695	0.1566

65TH MILLENNIUM CE

This is a list of transits visible from Moon in the 65th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	64001-05-25 11:03	G	25097089.85	25097089.96	25097090.08	0.2688	0.0334	
Mercury	64003-11-24 17:17	G	25098003.13	25098003.22	25098003.31	0.2644	0.2032	
Mercury	64014-05-28 06:15	G	25101840.65	25101840.76	25101840.87	0.2683	0.1000	
Mercury	64016-11-26 19:27	G	25102754.16	25102754.31	25102754.45	0.2641	0.0099	
Mercury	64027-05-31 00:43	G	25106591.45	25106591.53	25106591.60	0.2677	0.1983	
Mercury	64029-11-29 21:07	G	25107505.26	25107505.38	25107505.50	0.2641	0.1544	
Mercury	64034-05-23 20:24	G	25109141.25	25109141.35	25109141.45	0.2694	0.1346	
Mercury	64047-05-26 16:05	G	25113892.06	25113892.17	25113892.29	0.2687	0.0093	
Mercury	64049-11-24 23:17	G	25114805.35	25114805.47	25114805.58	0.2643	0.1552	
Mercury	64060-05-28 11:03	G	25118642.86	25118642.96	25118643.07	0.2682	0.1087	
Venus	64060-06-11 15:22	G	25118657.00	25118657.14	25118657.29	0.2682	0.1043	
Mercury	64062-11-28 01:12	G	25119556.41	25119556.55	25119556.70	0.2641	0.0109	
Mercury	64067-05-22 05:46	G	25121192.69	25121192.74	25121192.79	0.2696	0.2359	
Venus	64068-06-09 09:22	G	25121576.79	25121576.89	25121577.00	0.2686	0.1849	
Mercury	64073-05-31 05:31	G	25123393.68	25123393.73	25123393.79	0.2677	0.2330	
Mercury	64075-12-01 03:07	G	25124307.53	25124307.63	25124307.72	0.2641	0.2019	
Mercury	64080-05-24 01:41	G	25125943.46	25125943.57	25125943.67	0.2692	0.1117	
Mercury	64093-05-26 21:07	G	25130694.27	25130694.38	25130694.50	0.2687	0.0195	
Mercury	64095-11-26 05:17	G	25131607.59	25131607.72	25131607.84	0.2642	0.1336	
Mercury	64106-05-30 16:05	G	25135445.07	25135445.17	25135445.27	0.2681	0.1396	

Mercury	64108-11-29 07:12 G	25136358.65	25136358.80	25136358.94	0.2641	0.0568
Mercury	64113-05-23 10:48 G	25137994.89	25137994.95	25137995.01	0.2696	0.2244
Mercury	64119-06-02 10:34 G	25140195.89	25140195.94	25140195.98	0.2677	0.2414
Mercury	64121-12-02 09:07 G	25141109.80	25141109.88	25141109.96	0.2641	0.2182
Mercury	64126-05-26 06:43 G	25142745.67	25142745.78	25142745.90	0.2691	0.0792
Mercury	64139-05-29 02:10 G	25147496.48	25147496.59	25147496.71	0.2687	0.0415
Mercury	64141-11-27 11:17 G	25148409.83	25148409.97	25148410.10	0.2642	0.0925
Mercury	64152-05-30 20:53 G	25152247.28	25152247.37	25152247.47	0.2679	0.1550
Mercury	64154-11-30 12:58 G	25153160.89	25153161.04	25153161.18	0.2640	0.0729
Mercury	64159-05-24 15:51 G	25154797.08	25154797.16	25154797.25	0.2695	0.1859
Venus	64165-12-14 18:15 G	25157193.11	25157193.26	25157193.41	0.2658	0.0565
Mercury	64172-05-26 12:00 G	25159547.89	25159548.00	25159548.11	0.2691	0.0664
Mercury	64174-11-25 15:07 G	25160461.08	25160461.13	25160461.17	0.2644	0.2467
Mercury	64185-05-29 07:12 G	25164298.69	25164298.80	25164298.91	0.2685	0.0661
Mercury	64187-11-28 17:03 G	25165212.07	25165212.21	25165212.35	0.2642	0.0648
Mercury	64198-06-01 01:55 G	25169049.49	25169049.58	25169049.66	0.2679	0.1797
Mercury	64200-12-01 18:43 G	25169963.15	25169963.28	25169963.42	0.2640	0.1165
Mercury	64205-05-25 21:07 G	25171599.29	25171599.38	25171599.47	0.2694	0.1729
Mercury	64218-05-28 17:03 G	25176350.09	25176350.21	25176350.32	0.2690	0.0291
Mercury	64220-11-26 21:07 G	25177263.28	25177263.38	25177263.47	0.2644	0.1983
Mercury	64231-05-31 12:00 G	25181100.89	25181101.00	25181101.12	0.2683	0.0808
Mercury	64233-11-29 22:48 G	25182014.31	25182014.45	25182014.60	0.2641	0.0352
Mercury	64244-06-02 06:43 G	25185851.71	25185851.78	25185851.86	0.2679	0.2011
Mercury	64246-12-03 00:43 G	25186765.41	25186765.53	25186765.66	0.2640	0.1428
Mercury	64251-05-27 02:24 G	25188401.50	25188401.60	25188401.70	0.2693	0.1356
Mercury	64264-05-28 22:05 G	25193152.30	25193152.42	25193152.53	0.2689	0.0209
Mercury	64266-11-28 02:53 G	25194065.52	25194065.62	25194065.73	0.2644	0.1835
Mercury	64277-05-31 17:03 G	25197903.11	25197903.21	25197903.32	0.2682	0.1144
Mercury	64279-12-01 04:48 G	25198816.55	25198816.70	25198816.84	0.2640	0.0103
Mercury	64284-05-24 11:17 G	25200452.93	25200452.97	25200453.01	0.2696	0.2501

Mercury	64290-06-03 11:31 G	25202653.92	25202653.98	25202654.05	0.2678	0.2176
Mercury	64292-12-03 06:43 G	25203567.67	25203567.78	25203567.89	0.2640	0.1790
Mercury	64297-05-27 07:27 G	25205203.71	25205203.81	25205203.92	0.2694	0.1207
Mercury	64310-05-31 03:07 G	25209954.51	25209954.63	25209954.74	0.2687	0.0179
Venus	64311-06-13 12:29 G	25210332.89	25210333.02	25210333.15	0.2673	0.1648
Mercury	64312-11-29 08:53 G	25210867.75	25210867.87	25210867.99	0.2643	0.1329
Mercury	64323-06-02 22:05 G	25214705.32	25214705.42	25214705.52	0.2682	0.1230
Mercury	64325-12-02 10:48 G	25215618.80	25215618.95	25215619.09	0.2640	0.0257
Mercury	64330-05-26 16:34 G	25217255.13	25217255.19	25217255.26	0.2695	0.2236
Mercury	64336-06-04 16:19 G	25219456.14	25219456.18	25219456.22	0.2678	0.2456
Mercury	64338-12-05 12:29 G	25220369.94	25220370.02	25220370.11	0.2641	0.2138
Mercury	64343-05-29 12:29 G	25222005.92	25222006.02	25222006.13	0.2693	0.0900
Mercury	64356-05-31 08:10 G	25226756.72	25226756.84	25226756.95	0.2686	0.0293
Mercury	64358-11-30 14:39 G	25227669.98	25227670.11	25227670.24	0.2642	0.1196
Mercury	64369-06-03 02:53 G	25231507.53	25231507.62	25231507.72	0.2681	0.1587
Mercury	64371-12-03 16:34 G	25232421.05	25232421.19	25232421.33	0.2640	0.0753
Mercury	64376-05-26 21:51 G	25234057.34	25234057.41	25234057.49	0.2695	0.2030
Mercury	64382-06-05 21:22 G	25236258.35	25236258.39	25236258.42	0.2677	0.2548
Mercury	64384-12-05 18:29 G	25237172.20	25237172.27	25237172.33	0.2641	0.2360
Mercury	64389-05-29 17:46 G	25238808.13	25238808.24	25238808.35	0.2692	0.0687
Mercury	64391-11-28 18:43 G	25239721.25	25239721.28	25239721.32	0.2645	0.2567
Mercury	64402-06-01 13:12 G	25243558.93	25243559.05	25243559.16	0.2685	0.0614
Mercury	64404-11-30 20:39 G	25244472.22	25244472.36	25244472.50	0.2640	0.0710
Venus	64408-12-17 05:46 G	25245949.60	25245949.74	25245949.89	0.2651	0.1212
Mercury	64415-06-04 07:41 G	25248309.74	25248309.82	25248309.91	0.2680	0.1667
Venus	64416-12-14 18:58 G	25248869.17	25248869.29	25248869.41	0.2646	0.1821
Mercury	64417-12-03 22:34 G	25249223.30	25249223.44	25249223.58	0.2640	0.0893
Mercury	64422-05-28 02:53 G	25250859.53	25250859.62	25250859.71	0.2695	0.1693
Mercury	64435-05-30 22:48 G	25255610.34	25255610.45	25255610.57	0.2690	0.0461
Mercury	64437-11-29 00:43 G	25256523.45	25256523.53	25256523.60	0.2644	0.2196

Mercury	64448-06-01 18:15 G	25260361.14	25260361.26	25260361.37	0.2685	0.0778
Mercury	64450-12-02 02:39 G	25261274.47	25261274.61	25261274.75	0.2640	0.0515
Mercury	64461-06-04 12:43 G	25265111.95	25265112.03	25265112.10	0.2679	0.1973
Mercury	64463-12-05 04:19 G	25266025.55	25266025.68	25266025.80	0.2640	0.1370
Mercury	64468-05-28 08:10 G	25267661.74	25267661.84	25267661.93	0.2695	0.1563
Mercury	64481-05-31 03:51 G	25272412.55	25272412.66	25272412.78	0.2689	0.0169
Mercury	64483-11-30 06:29 G	25273325.67	25273325.77	25273325.88	0.2642	0.1853
Mercury	64494-06-02 23:03 G	25277163.35	25277163.46	25277163.57	0.2684	0.1020
Mercury	64496-12-02 08:24 G	25278076.71	25278076.85	25278077.00	0.2640	0.0118
Mercury	64501-05-27 17:17 G	25279713.20	25279713.22	25279713.23	0.2697	0.2652
Mercury	64507-06-06 17:31 G	25281914.16	25281914.23	25281914.30	0.2678	0.2113
Mercury	64509-12-06 09:51 G	25282827.80	25282827.91	25282828.04	0.2640	0.1531
Mercury	64514-05-30 13:12 G	25284463.95	25284464.05	25284464.16	0.2694	0.1184
Mercury	64527-06-02 08:53 G	25289214.76	25289214.87	25289214.99	0.2688	0.0102
Mercury	64529-12-01 12:29 G	25290127.91	25290128.02	25290128.14	0.2641	0.1616
Mercury	64540-06-04 03:51 G	25293965.56	25293965.66	25293965.77	0.2682	0.1256
Mercury	64542-12-04 14:10 G	25294878.95	25294879.09	25294879.24	0.2640	0.0176
Venus	64546-06-16 14:53 G	25296168.97	25296169.12	25296169.26	0.2679	0.1075
Mercury	64547-05-28 22:19 G	25296515.37	25296515.43	25296515.49	0.2697	0.2285
Mercury	64553-06-06 22:34 G	25298716.39	25298716.44	25298716.49	0.2678	0.2373
Venus	64554-06-14 06:15 G	25299088.64	25299088.76	25299088.87	0.2685	0.1775
Mercury	64555-12-07 15:51 G	25299630.07	25299630.16	25299630.26	0.2640	0.1990
Mercury	64560-05-30 18:29 G	25301266.16	25301266.27	25301266.38	0.2692	0.1060
Mercury	64573-06-02 13:55 G	25306016.97	25306017.08	25306017.20	0.2688	0.0339
Mercury	64575-12-02 18:29 G	25306930.14	25306930.27	25306930.40	0.2642	0.1158
Mercury	64586-06-05 08:53 G	25310767.77	25310767.87	25310767.97	0.2680	0.1393
Mercury	64588-12-04 19:55 G	25311681.19	25311681.33	25311681.48	0.2639	0.0457
Mercury	64593-05-29 03:36 G	25313317.58	25313317.65	25313317.71	0.2696	0.2133
Mercury	64599-06-08 03:22 G	25315518.61	25315518.64	25315518.67	0.2678	0.2569
Mercury	64601-12-08 21:51 G	25316432.33	25316432.41	25316432.49	0.2640	0.2230

Mercury	64606-06-01 23:31 G	25318068.37	25318068.48	25318068.59	0.2692	0.0689
Mercury	64608-11-30 22:34 G	25318981.41	25318981.44	25318981.48	0.2643	0.2552
Mercury	64619-06-04 18:58 G	25322819.18	25322819.29	25322819.40	0.2687	0.0425
Mercury	64621-12-04 00:29 G	25323732.38	25323732.52	25323732.65	0.2642	0.0989
Mercury	64632-06-06 13:55 G	25327569.99	25327570.08	25327570.16	0.2680	0.1725
Mercury	64634-12-07 01:55 G	25328483.44	25328483.58	25328483.72	0.2639	0.0864
Mercury	64639-05-31 08:39 G	25330119.78	25330119.86	25330119.95	0.2695	0.1815
Mercury	64647-12-10 03:51 G	25333234.64	25333234.66	25333234.68	0.2641	0.2598
Venus	64651-12-19 21:07 G	25334705.22	25334705.38	25334705.53	0.2652	0.0295
Mercury	64652-06-02 04:34 G	25334870.58	25334870.69	25334870.81	0.2692	0.0570
Mercury	64654-12-02 04:34 G	25335783.64	25335783.69	25335783.75	0.2643	0.2398
Mercury	64665-06-05 00:00 G	25339621.39	25339621.50	25339621.61	0.2684	0.0788
Mercury	64667-12-05 06:15 G	25340534.61	25340534.76	25340534.90	0.2641	0.0516
Mercury	64678-06-07 18:43 G	25344372.20	25344372.28	25344372.37	0.2680	0.1816
Mercury	64680-12-07 07:55 G	25345285.69	25345285.83	25345285.96	0.2639	0.1068
Mercury	64685-05-31 13:55 G	25346921.99	25346922.08	25346922.18	0.2695	0.1553
Mercury	64698-06-03 09:36 G	25351672.79	25351672.90	25351673.02	0.2691	0.0252
Mercury	64700-12-03 10:34 G	25352585.84	25352585.94	25352586.03	0.2643	0.1926
Mercury	64711-06-07 05:03 G	25356423.60	25356423.71	25356423.82	0.2683	0.0891
Mercury	64713-12-06 12:00 G	25357336.85	25357337.00	25357337.14	0.2639	0.0391
Mercury	64718-05-30 22:48 G	25358973.43	25358973.45	25358973.47	0.2696	0.2639
Mercury	64724-06-08 23:31 G	25361174.42	25361174.48	25361174.55	0.2680	0.2150
Mercury	64726-12-09 13:41 G	25362087.95	25362088.07	25362088.19	0.2639	0.1548
Mercury	64731-06-02 19:12 G	25363724.20	25363724.30	25363724.40	0.2695	0.1356
Mercury	64744-06-04 14:53 G	25368475.00	25368475.12	25368475.23	0.2689	0.0099
Mercury	64746-12-04 16:19 G	25369388.07	25369388.18	25369388.29	0.2643	0.1738
Mercury	64757-06-07 09:51 G	25373225.81	25373225.91	25373226.02	0.2683	0.1224
Mercury	64759-12-07 17:46 G	25374139.10	25374139.24	25374139.39	0.2639	0.0111
Mercury	64764-05-31 04:05 G	25375775.63	25375775.67	25375775.71	0.2696	0.2481
Mercury	64770-06-10 04:19 G	25377976.62	25377976.68	25377976.75	0.2679	0.2228

Mercury	64772-12-09 19:27 G	25378890.20	25378890.31	25378890.42	0.2640	0.1689
Mercury	64777-06-03 00:15 G	25380526.40	25380526.51	25380526.61	0.2694	0.1037
Venus	64789-06-19 00:58 G	25384925.45	25384925.54	25384925.63	0.2684	0.2202
Mercury	64790-06-05 19:55 G	25385277.21	25385277.33	25385277.44	0.2687	0.0195
Mercury	64792-12-04 22:05 G	25386190.30	25386190.42	25386190.54	0.2641	0.1364
Venus	64797-06-16 15:36 G	25387845.02	25387845.15	25387845.29	0.2680	0.1486
Mercury	64803-06-08 14:53 G	25390028.02	25390028.12	25390028.22	0.2683	0.1357
Mercury	64805-12-07 23:46 G	25390941.35	25390941.49	25390941.64	0.2639	0.0287
Mercury	64810-06-01 09:22 G	25392577.82	25392577.89	25392577.96	0.2696	0.2091
Mercury	64816-06-10 09:07 G	25394778.85	25394778.88	25394778.92	0.2678	0.2542
Mercury	64818-12-11 01:12 G	25395692.47	25395692.55	25395692.63	0.2640	0.2172
Mercury	64823-06-04 05:17 G	25397328.61	25397328.72	25397328.83	0.2693	0.0892
Mercury	64836-06-06 00:58 G	25402079.42	25402079.54	25402079.65	0.2686	0.0475
Mercury	64838-12-06 03:51 G	25402992.53	25402992.66	25402992.80	0.2640	0.1044
Mercury	64849-06-08 19:41 G	25406830.23	25406830.32	25406830.41	0.2681	0.1604
Mercury	64851-12-09 05:31 G	25407743.59	25407743.73	25407743.87	0.2639	0.0715
Mercury	64856-06-01 14:24 G	25409380.02	25409380.10	25409380.18	0.2697	0.1978
Mercury	64862-06-11 14:10 G	25411581.08	25411581.09	25411581.10	0.2678	0.2666
Mercury	64864-12-11 07:12 G	25412494.73	25412494.80	25412494.86	0.2640	0.2334
Mercury	64869-06-04 10:19 G	25414130.82	25414130.93	25414131.05	0.2691	0.0530
Mercury	64871-12-04 08:10 G	25415043.79	25415043.84	25415043.90	0.2643	0.2379
Mercury	64882-06-07 06:00 G	25418881.63	25418881.75	25418881.86	0.2686	0.0614
Mercury	64884-12-06 09:51 G	25419794.77	25419794.91	25419795.05	0.2639	0.0783
Venus	64894-12-21 10:19 G	25423461.83	25423461.93	25423462.03	0.2654	0.1935
Mercury	64895-06-10 00:29 G	25423632.44	25423632.52	25423632.61	0.2680	0.1829
Mercury	64897-12-09 11:17 G	25424545.83	25424545.97	25424546.11	0.2639	0.0964
Mercury	64902-06-03 19:27 G	25426182.22	25426182.31	25426182.41	0.2696	0.1606
Venus	64902-12-20 02:39 G	25426381.47	25426381.61	25426381.74	0.2647	0.1493
Mercury	64915-06-06 15:36 G	25430933.04	25430933.15	25430933.27	0.2690	0.0413
Mercury	64917-12-05 14:10 G	25431846.02	25431846.09	25431846.17	0.2642	0.2219

Mercury	64928-06-08 10:48 G	25435683.84	25435683.95	25435684.06	0.2685	0.0939
Mercury	64930-12-08 15:51 G	25436597.02	25436597.16	25436597.30	0.2640	0.0357
Mercury	64941-06-11 05:31 G	25440434.65	25440434.73	25440434.81	0.2679	0.1974
Mercury	64943-12-11 17:03 G	25441348.08	25441348.21	25441348.34	0.2639	0.1260
Mercury	64948-06-04 00:43 G	25442984.43	25442984.53	25442984.63	0.2695	0.1453
Mercury	64961-06-06 20:39 G	25447735.24	25447735.36	25447735.48	0.2690	0.0038
Mercury	64963-12-06 19:55 G	25448648.23	25448648.33	25448648.44	0.2641	0.1723
Mercury	64974-06-09 15:51 G	25452486.05	25452486.16	25452486.26	0.2684	0.1031
Mercury	64976-12-08 21:36 G	25453399.26	25453399.40	25453399.55	0.2640	0.0173
Mercury	64981-06-02 09:36 G	25455035.86	25455035.90	25455035.95	0.2698	0.2497
Mercury	64987-06-12 10:19 G	25457236.88	25457236.93	25457236.99	0.2679	0.2289
Mercury	64989-12-11 23:03 G	25458150.35	25458150.46	25458150.57	0.2639	0.1662
Mercury	64994-06-05 06:00 G	25459786.65	25459786.75	25459786.86	0.2694	0.1135

66TH MILLENNIUM CE

This is a list of transits visible from Moon in the 66th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	65007-06-09 01:41 G	25464537.46	25464537.57	25464537.69	0.2689	0.0079		
Mercury	65009-12-08 01:55 G	25465450.47	25465450.58	25465450.70	0.2641	0.1584		
Mercury	65020-06-10 20:39 G	25469288.26	25469288.36	25469288.46	0.2682	0.1379		
Mercury	65022-12-11 03:22 G	25470201.49	25470201.64	25470201.78	0.2639	0.0287		
Mercury	65027-06-04 14:53 G	25471838.06	25471838.12	25471838.18	0.2697	0.2288		
Venus	65032-06-20 17:31 G	25473681.10	25473681.23	25473681.35	0.2676	0.1833		

Mercury	65033-06-13 15:22 G	25474039.09	25474039.14	25474039.19	0.2679	0.2385
Mercury	65035-12-14 05:03 G	25474952.61	25474952.71	25474952.81	0.2639	0.1886
Mercury	65040-06-06 11:17 G	25476588.86	25476588.97	25476589.08	0.2693	0.0898
Venus	65040-06-18 04:34 G	25476600.60	25476600.69	25476600.79	0.2682	0.2148
Mercury	65053-06-09 06:43 G	25481339.66	25481339.78	25481339.89	0.2688	0.0399
Mercury	65055-12-09 07:55 G	25482252.70	25482252.83	25482252.96	0.2641	0.1103
Mercury	65066-06-12 01:41 G	25486090.47	25486090.57	25486090.67	0.2681	0.1473
Mercury	65068-12-11 09:07 G	25487003.73	25487003.88	25487004.02	0.2638	0.0417
Mercury	65073-06-04 20:10 G	25488640.26	25488640.34	25488640.42	0.2696	0.1954
Mercury	65081-12-14 10:48 G	25491754.89	25491754.95	25491755.02	0.2640	0.2345
Mercury	65086-06-07 16:19 G	25493391.07	25493391.18	25493391.29	0.2693	0.0683
Mercury	65088-12-06 12:15 G	25494303.98	25494304.01	25494304.04	0.2642	0.2567
Mercury	65099-06-10 11:46 G	25498141.87	25498141.99	25498142.10	0.2686	0.0574
Mercury	65101-12-10 13:41 G	25499054.93	25499055.07	25499055.20	0.2640	0.0927
Mercury	65112-06-13 06:43 G	25502892.69	25502892.78	25502892.86	0.2681	0.1810
Mercury	65114-12-13 14:53 G	25503805.99	25503806.12	25503806.26	0.2638	0.0921
Mercury	65119-06-07 01:27 G	25505442.47	25505442.56	25505442.64	0.2696	0.1796
Mercury	65127-12-16 16:34 G	25508557.14	25508557.19	25508557.23	0.2641	0.2488
Mercury	65132-06-08 21:22 G	25510193.27	25510193.39	25510193.50	0.2692	0.0393
Mercury	65134-12-08 18:00 G	25511106.18	25511106.25	25511106.33	0.2642	0.2226
Venus	65137-12-24 03:22 G	25512217.48	25512217.64	25512217.80	0.2646	0.0543
Mercury	65145-06-11 16:34 G	25514944.08	25514944.19	25514944.31	0.2684	0.0802
Venus	65145-12-21 18:29 G	25515137.19	25515137.27	25515137.35	0.2650	0.2230
Mercury	65147-12-11 19:27 G	25515857.16	25515857.31	25515857.45	0.2639	0.0555
Mercury	65158-06-14 11:31 G	25519694.90	25519694.98	25519695.06	0.2681	0.1931
Mercury	65160-12-13 20:53 G	25520608.24	25520608.37	25520608.51	0.2638	0.1084
Mercury	65165-06-07 06:43 G	25522244.68	25522244.78	25522244.87	0.2696	0.1411
Mercury	65178-06-10 02:24 G	25526995.48	25526995.60	25526995.72	0.2691	0.0240
Mercury	65180-12-09 00:00 G	25527908.41	25527908.50	25527908.59	0.2642	0.1976
Mercury	65191-06-12 21:36 G	25531746.30	25531746.40	25531746.51	0.2684	0.1069

Mercury	65193-12-12 01:12 G	25532659.41	25532659.55	25532659.69	0.2638	0.0247
Mercury	65198-06-05 15:22 G	25534296.11	25534296.14	25534296.18	0.2697	0.2543
Mercury	65204-06-14 16:19 G	25536497.11	25536497.18	25536497.25	0.2680	0.2171
Mercury	65206-12-15 02:39 G	25537410.49	25537410.61	25537410.73	0.2639	0.1505
Mercury	65211-06-08 11:46 G	25539046.89	25539046.99	25539047.09	0.2696	0.1312
Mercury	65224-06-10 07:27 G	25543797.69	25543797.81	25543797.93	0.2689	0.0120
Mercury	65226-12-10 05:46 G	25544710.62	25544710.74	25544710.85	0.2641	0.1558
Mercury	65237-06-13 02:39 G	25548548.51	25548548.61	25548548.72	0.2684	0.1224
Mercury	65239-12-13 07:12 G	25549461.65	25549461.80	25549461.94	0.2638	0.0067
Mercury	65244-06-05 20:39 G	25551098.31	25551098.36	25551098.42	0.2697	0.2358
Mercury	65250-06-15 21:07 G	25553299.33	25553299.38	25553299.43	0.2679	0.2391
Mercury	65252-12-15 08:24 G	25554212.74	25554212.85	25554212.95	0.2639	0.1758
Mercury	65257-06-08 16:48 G	25555849.09	25555849.20	25555849.31	0.2695	0.0929
Mercury	65270-06-11 12:29 G	25560599.91	25560600.02	25560600.14	0.2688	0.0224
Mercury	65272-12-10 11:31 G	25561512.86	25561512.98	25561513.10	0.2639	0.1404
Venus	65275-06-22 21:22 G	25562437.27	25562437.39	25562437.51	0.2689	0.1570
Mercury	65283-06-14 07:41 G	25565350.72	25565350.82	25565350.91	0.2683	0.1526
Venus	65283-06-20 14:53 G	25565356.98	25565357.12	25565357.26	0.2688	0.1096
Mercury	65285-12-13 12:58 G	25566263.90	25566264.04	25566264.18	0.2638	0.0431
Mercury	65290-06-07 01:55 G	25567900.51	25567900.58	25567900.65	0.2697	0.2059
Mercury	65296-06-16 02:10 G	25570101.56	25570101.59	25570101.62	0.2679	0.2552
Mercury	65298-12-16 14:10 G	25571015.00	25571015.09	25571015.18	0.2639	0.2070
Mercury	65303-06-10 22:05 G	25572651.30	25572651.42	25572651.53	0.2693	0.0794
Mercury	65316-06-12 17:31 G	25577402.12	25577402.23	25577402.35	0.2687	0.0596
Mercury	65318-12-12 17:31 G	25578315.09	25578315.23	25578315.36	0.2639	0.0907
Mercury	65329-06-15 12:29 G	25582152.93	25582153.02	25582153.11	0.2681	0.1614
Mercury	65331-12-15 18:43 G	25583066.14	25583066.28	25583066.42	0.2638	0.0623
Mercury	65336-06-08 06:58 G	25584702.71	25584702.79	25584702.88	0.2697	0.1825
Mercury	65344-12-17 20:10 G	25587817.29	25587817.34	25587817.39	0.2639	0.2459
Mercury	65349-06-11 03:07 G	25589453.52	25589453.63	25589453.75	0.2691	0.0471

Mercury	65351-12-10 21:51 G	25590366.35	25590366.41	25590366.48	0.2641	0.2314
Mercury	65362-06-13 22:34 G	25594204.33	25594204.44	25594204.56	0.2687	0.0687
Mercury	65364-12-12 23:17 G	25595117.34	25595117.47	25595117.61	0.2639	0.0775
Mercury	65375-06-16 17:17 G	25598955.15	25598955.22	25598955.30	0.2680	0.1964
Mercury	65377-12-16 00:15 G	25599868.38	25599868.51	25599868.64	0.2638	0.1069
Venus	65380-12-25 12:00 G	25600973.89	25600974.00	25600974.11	0.2655	0.1839
Mercury	65382-06-09 12:15 G	25601504.91	25601505.01	25601505.10	0.2696	0.1601
Venus	65388-12-23 07:27 G	25603893.68	25603893.81	25603893.93	0.2650	0.1540
Mercury	65395-06-12 08:10 G	25606255.73	25606255.84	25606255.96	0.2691	0.0268
Mercury	65397-12-11 03:51 G	25607168.57	25607168.66	25607168.74	0.2640	0.2085
Mercury	65408-06-15 03:36 G	25611006.54	25611006.65	25611006.76	0.2685	0.1012
Mercury	65410-12-15 05:03 G	25611919.57	25611919.71	25611919.85	0.2639	0.0301
Mercury	65421-06-17 22:19 G	25615757.36	25615757.43	25615757.51	0.2680	0.2050
Mercury	65423-12-18 06:15 G	25616670.63	25616670.76	25616670.89	0.2638	0.1213
Mercury	65428-06-10 17:17 G	25618307.12	25618307.22	25618307.33	0.2695	0.1272
Mercury	65441-06-13 13:27 G	25623057.94	25623058.06	25623058.17	0.2691	0.0107
Mercury	65443-12-13 09:36 G	25623970.80	25623970.90	25623971.01	0.2640	0.1730
Mercury	65454-06-16 08:24 G	25627808.75	25627808.85	25627808.96	0.2683	0.1167
Mercury	65456-12-15 10:48 G	25628721.80	25628721.95	25628722.09	0.2638	0.0153
Mercury	65461-06-09 02:10 G	25630358.54	25630358.59	25630358.65	0.2698	0.2357
Mercury	65467-06-19 03:07 G	25632559.58	25632559.63	25632559.69	0.2680	0.2381
Mercury	65469-12-18 12:00 G	25633472.89	25633473.00	25633473.11	0.2638	0.1720
Mercury	65474-06-11 22:34 G	25635109.34	25635109.44	25635109.55	0.2694	0.1127
Mercury	65487-06-14 18:15 G	25639860.15	25639860.26	25639860.38	0.2690	0.0258
Mercury	65489-12-13 15:36 G	25640773.03	25640773.15	25640773.26	0.2640	0.1427
Mercury	65500-06-17 13:27 G	25644610.96	25644611.06	25644611.16	0.2682	0.1405
Mercury	65502-12-17 16:19 G	25645524.04	25645524.18	25645524.33	0.2637	0.0262
Mercury	65507-06-11 07:27 G	25647160.75	25647160.81	25647160.87	0.2698	0.2234
Mercury	65513-06-20 07:55 G	25649361.80	25649361.83	25649361.87	0.2680	0.2497
Mercury	65515-12-20 18:00 G	25650275.15	25650275.25	25650275.35	0.2639	0.1878

Venus	65518-06-25 21:51 G	25651193.31	25651193.41	25651193.50	0.2676	0.2173
Mercury	65520-06-13 03:51 G	25651911.54	25651911.66	25651911.77	0.2694	0.0740
Venus	65526-06-23 06:43 G	25654112.71	25654112.78	25654112.85	0.2679	0.2406
Mercury	65533-06-15 23:17 G	25656662.36	25656662.47	25656662.59	0.2688	0.0406
Mercury	65535-12-15 21:22 G	25657575.26	25657575.39	25657575.52	0.2639	0.1157
Mercury	65546-06-18 18:29 G	25661413.18	25661413.27	25661413.36	0.2682	0.1643
Mercury	65548-12-17 22:19 G	25662326.29	25662326.43	25662326.57	0.2637	0.0535
Mercury	65553-06-11 12:43 G	25663962.95	25663963.03	25663963.11	0.2697	0.1849
Mercury	65561-12-20 23:31 G	25667077.41	25667077.48	25667077.55	0.2640	0.2303
Mercury	65566-06-14 08:53 G	25668713.76	25668713.87	25668713.98	0.2694	0.0650
Mercury	65568-12-13 01:55 G	25669626.55	25669626.58	25669626.61	0.2641	0.2567
Mercury	65579-06-17 04:19 G	25673464.57	25673464.68	25673464.80	0.2686	0.0745
Mercury	65581-12-16 02:53 G	25674377.48	25674377.62	25674377.76	0.2638	0.0763
Mercury	65592-06-18 23:17 G	25678215.39	25678215.47	25678215.56	0.2682	0.1815
Mercury	65594-12-19 04:19 G	25679128.54	25679128.68	25679128.82	0.2637	0.0856
Mercury	65599-06-12 18:00 G	25680765.16	25680765.25	25680765.34	0.2697	0.1677
Mercury	65607-12-22 05:31 G	25683879.70	25683879.73	25683879.76	0.2640	0.2558
Mercury	65612-06-14 13:55 G	25685515.97	25685516.08	25685516.20	0.2692	0.0271
Mercury	65614-12-14 07:41 G	25686428.74	25686428.82	25686428.91	0.2641	0.2075
Venus	65623-12-28 12:58 G	25689729.92	25689730.04	25689730.16	0.2642	0.1777
Mercury	65625-06-17 09:22 G	25690266.78	25690266.89	25690267.00	0.2685	0.0833
Mercury	65627-12-17 08:53 G	25691179.73	25691179.87	25691180.01	0.2637	0.0607
Venus	65631-12-26 01:12 G	25692649.42	25692649.55	25692649.69	0.2643	0.1515
Mercury	65638-06-20 04:05 G	25695017.60	25695017.67	25695017.74	0.2681	0.2097
Mercury	65640-12-19 10:05 G	25695930.79	25695930.92	25695931.05	0.2638	0.1215
Mercury	65645-06-12 23:03 G	25697567.36	25697567.46	25697567.56	0.2697	0.1372
Mercury	65658-06-15 19:12 G	25702318.18	25702318.30	25702318.41	0.2690	0.0166
Mercury	65660-12-14 13:27 G	25703230.97	25703231.06	25703231.16	0.2640	0.1950
Mercury	65671-06-18 14:24 G	25707069.00	25707069.10	25707069.21	0.2685	0.1202
Mercury	65673-12-17 14:39 G	25707981.97	25707982.11	25707982.25	0.2637	0.0106

Mercury	65678-06-11 07:55 G	25709618.79	25709618.83	25709618.87	0.2698	0.2538
Mercury	65684-06-20 09:07 G	25711819.81	25711819.88	25711819.94	0.2680	0.2189
Mercury	65686-12-20 15:36 G	25712733.03	25712733.15	25712733.28	0.2638	0.1407
Mercury	65691-06-14 04:19 G	25714369.57	25714369.68	25714369.78	0.2696	0.1155
Mercury	65704-06-17 00:15 G	25719120.39	25719120.51	25719120.63	0.2689	0.0185
Mercury	65706-12-16 19:12 G	25720033.19	25720033.30	25720033.42	0.2638	0.1500
Mercury	65717-06-19 19:27 G	25723871.20	25723871.31	25723871.41	0.2684	0.1286
Mercury	65719-12-19 20:24 G	25724784.21	25724784.35	25724784.50	0.2637	0.0083
Mercury	65724-06-12 13:12 G	25726420.98	25726421.05	25726421.12	0.2698	0.2182
Mercury	65730-06-22 13:55 G	25728622.05	25728622.08	25728622.12	0.2680	0.2539
Mercury	65732-12-21 21:22 G	25729535.29	25729535.39	25729535.49	0.2638	0.1869
Mercury	65737-06-15 09:22 G	25731171.78	25731171.89	25731172.00	0.2694	0.0922
Mercury	65750-06-18 05:17 G	25735922.60	25735922.72	25735922.83	0.2689	0.0365
Mercury	65752-12-17 01:12 G	25736835.42	25736835.55	25736835.67	0.2638	0.1299
Venus	65761-06-26 17:46 G	25739949.11	25739949.24	25739949.36	0.2691	0.1567
Mercury	65763-06-21 00:15 G	25740673.42	25740673.51	25740673.60	0.2683	0.1601
Mercury	65765-12-20 02:10 G	25741586.45	25741586.59	25741586.73	0.2637	0.0485
Venus	65769-06-24 11:46 G	25742868.85	25742868.99	25742869.12	0.2693	0.1229
Mercury	65770-06-13 18:15 G	25743223.19	25743223.26	25743223.34	0.2698	0.2062
Mercury	65776-06-22 18:58 G	25745424.27	25745424.29	25745424.31	0.2680	0.2621
Mercury	65778-12-23 03:22 G	25746337.55	25746337.64	25746337.73	0.2638	0.2017
Mercury	65783-06-16 14:39 G	25747974.00	25747974.11	25747974.22	0.2693	0.0596
Mercury	65785-12-15 05:46 G	25748886.71	25748886.74	25748886.77	0.2641	0.2558
Mercury	65796-06-18 10:19 G	25752724.81	25752724.93	25752725.04	0.2688	0.0620
Mercury	65798-12-18 06:58 G	25753637.66	25753637.79	25753637.93	0.2638	0.0908
Mercury	65809-06-22 05:03 G	25757475.63	25757475.71	25757475.80	0.2681	0.1747
Mercury	65811-12-22 07:41 G	25758388.68	25758388.82	25758388.96	0.2637	0.0648
Mercury	65816-06-14 23:31 G	25760025.39	25760025.48	25760025.57	0.2698	0.1669
Mercury	65824-12-24 09:07 G	25763139.84	25763139.88	25763139.92	0.2639	0.2526
Mercury	65829-06-17 19:41 G	25764776.21	25764776.32	25764776.44	0.2692	0.0474

Mercury	65831-12-17 11:46 G	25765688.93	25765688.99	25765689.05	0.2639	0.2347
Mercury	65842-06-20 15:07 G	25769527.02	25769527.13	25769527.24	0.2687	0.0858
Mercury	65844-12-19 12:43 G	25770439.89	25770440.03	25770440.17	0.2638	0.0634
Mercury	65855-06-23 10:05 G	25774277.85	25774277.92	25774278.00	0.2681	0.2006
Mercury	65857-12-22 13:41 G	25775190.93	25775191.07	25775191.20	0.2637	0.1058
Mercury	65862-06-16 04:48 G	25776827.61	25776827.70	25776827.80	0.2696	0.1540
Venus	65866-12-30 12:15 G	25778485.88	25778486.01	25778486.15	0.2653	0.1299
Venus	65874-12-28 08:53 G	25781405.74	25781405.87	25781406.00	0.2652	0.1232
Mercury	65875-06-19 00:58 G	25781578.42	25781578.54	25781578.65	0.2692	0.0129
Mercury	65877-12-17 17:31 G	25782491.13	25782491.23	25782491.33	0.2639	0.1885
Mercury	65888-06-20 20:10 G	25786329.23	25786329.34	25786329.45	0.2685	0.1005
Mercury	65890-12-20 18:29 G	25787242.13	25787242.27	25787242.41	0.2637	0.0362
Mercury	65895-06-14 13:27 G	25788879.04	25788879.06	25788879.08	0.2699	0.2638
Mercury	65901-06-24 15:07 G	25791080.07	25791080.13	25791080.19	0.2681	0.2214
Mercury	65903-12-24 19:27 G	25791993.19	25791993.31	25791993.44	0.2637	0.1321
Mercury	65908-06-17 10:05 G	25793629.81	25793629.92	25793630.02	0.2695	0.1158
Mercury	65921-06-20 06:00 G	25798380.63	25798380.75	25798380.86	0.2691	0.0083
Mercury	65923-12-19 23:17 G	25799293.37	25799293.47	25799293.58	0.2639	0.1751
Mercury	65934-06-23 01:12 G	25803131.45	25803131.55	25803131.65	0.2684	0.1344
Mercury	65936-12-22 00:00 G	25804044.36	25804044.50	25804044.65	0.2636	0.0053
Mercury	65941-06-15 18:43 G	25805681.22	25805681.28	25805681.34	0.2698	0.2319
Mercury	65947-06-25 19:55 G	25807882.28	25807882.33	25807882.38	0.2681	0.2387
Mercury	65949-12-25 01:27 G	25808795.44	25808795.56	25808795.67	0.2638	0.1657
Mercury	65954-06-18 15:07 G	25810432.03	25810432.13	25810432.24	0.2695	0.1019
Mercury	65967-06-21 11:03 G	25815182.84	25815182.96	25815183.07	0.2689	0.0380
Mercury	65969-12-20 05:03 G	25816095.59	25816095.71	25816095.84	0.2639	0.1275
Mercury	65980-06-23 06:15 G	25819933.66	25819933.76	25819933.86	0.2683	0.1436
Mercury	65982-12-23 06:00 G	25820846.60	25820846.75	25820846.89	0.2636	0.0202
Mercury	65987-06-17 00:00 G	25822483.43	25822483.50	25822483.58	0.2698	0.2057
Mercury	65993-06-26 00:43 G	25824684.52	25824684.53	25824684.54	0.2681	0.2666

Mercury	65995-12-26 06:58 G	25825597.70	25825597.79	25825597.88	0.2638	0.2002
Mercury	66000-06-18 20:24 G	25827234.23	25827234.35	25827234.46	0.2695	0.0697

67TH MILLENNIUM CE

This is a list of transits visible from Moon in the 67th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	66002-12-18 10:05 G		25828146.91	25828146.92	25828146.92	0.2641	0.2632	
Venus	66004-06-29 01:12 G		25828705.44	25828705.55	25828705.66	0.2681	0.2028	
Venus	66012-06-26 10:34 G		25831624.82	25831624.94	25831625.06	0.2680	0.1905	
Mercury	66013-06-21 16:05 G		25831985.05	25831985.17	25831985.28	0.2687	0.0486	
Mercury	66015-12-21 10:48 G		25832897.82	25832897.95	25832898.08	0.2637	0.1151	
Mercury	66026-06-24 11:17 G		25836735.88	25836735.97	25836736.05	0.2683	0.1794	
Mercury	66028-12-23 11:46 G		25837648.85	25837648.99	25837649.13	0.2636	0.0682	
Mercury	66033-06-17 05:17 G		25839285.64	25839285.72	25839285.81	0.2698	0.1842	
Mercury	66041-12-26 12:43 G		25842399.95	25842400.03	25842400.11	0.2639	0.2200	
Mercury	66046-06-20 01:27 G		25844036.44	25844036.56	25844036.68	0.2694	0.0494	
Mercury	66048-12-18 15:51 G		25844949.10	25844949.16	25844949.21	0.2641	0.2432	
Mercury	66059-06-22 21:07 G		25848787.27	25848787.38	25848787.49	0.2686	0.0815	
Mercury	66061-12-21 16:34 G		25849700.05	25849700.19	25849700.33	0.2636	0.0700	
Mercury	66072-06-24 16:05 G		25853538.08	25853538.17	25853538.25	0.2682	0.1870	
Mercury	66074-12-24 17:31 G		25854451.09	25854451.23	25854451.37	0.2637	0.0809	
Mercury	66079-06-18 10:34 G		25856087.84	25856087.94	25856088.03	0.2698	0.1505	
Mercury	66092-06-20 06:29 G		25860838.66	25860838.77	25860838.89	0.2692	0.0272	

Mercury	66094-12-19 21:22 G	25861751.31	25861751.39	25861751.48	0.2639	0.2081
Mercury	66105-06-24 02:10 G	25865589.48	25865589.59	25865589.70	0.2686	0.0971
Mercury	66107-12-23 22:19 G	25866502.29	25866502.43	25866502.57	0.2636	0.0514
Mercury	66112-06-16 19:12 G	25868139.27	25868139.30	25868139.32	0.2699	0.2607
Venus	66117-12-30 11:17 G	25870161.82	25870161.97	25870162.13	0.2639	0.1145
Mercury	66118-06-26 20:53 G	25870340.30	25870340.37	25870340.43	0.2681	0.2183
Mercury	66120-12-25 23:03 G	25871253.34	25871253.46	25871253.59	0.2637	0.1265
Mercury	66125-06-19 15:36 G	25872890.05	25872890.15	25872890.25	0.2697	0.1372
Mercury	66138-06-22 11:46 G	25877640.87	25877640.99	25877641.11	0.2690	0.0057
Mercury	66140-12-21 03:22 G	25878553.53	25878553.64	25878553.74	0.2638	0.1755
Mercury	66151-06-25 06:58 G	25882391.69	25882391.79	25882391.90	0.2686	0.1236
Mercury	66153-12-24 04:05 G	25883304.53	25883304.67	25883304.82	0.2636	0.0123
Mercury	66158-06-18 00:29 G	25884941.47	25884941.52	25884941.56	0.2699	0.2475
Mercury	66164-06-27 01:41 G	25887142.52	25887142.57	25887142.63	0.2680	0.2318
Mercury	66166-12-27 04:48 G	25888055.58	25888055.70	25888055.82	0.2637	0.1425
Mercury	66171-06-20 20:53 G	25889692.26	25889692.37	25889692.48	0.2696	0.0991
Mercury	66184-06-22 16:48 G	25894443.08	25894443.20	25894443.32	0.2690	0.0187
Mercury	66186-12-22 09:07 G	25895355.76	25895355.88	25895355.99	0.2637	0.1538
Mercury	66197-06-25 12:00 G	25899193.90	25899194.00	25899194.10	0.2684	0.1451
Mercury	66199-12-25 09:51 G	25900106.77	25900106.91	25900107.06	0.2637	0.0152
Mercury	66204-06-19 05:31 G	25901743.66	25901743.73	25901743.81	0.2699	0.2098
Mercury	66210-06-29 06:43 G	25903944.76	25903944.78	25903944.81	0.2680	0.2589
Mercury	66212-12-28 10:48 G	25904857.85	25904857.95	25904858.05	0.2637	0.1866
Mercury	66217-06-22 02:10 G	25906494.48	25906494.59	25906494.70	0.2694	0.0867
Mercury	66230-06-24 21:51 G	25911245.30	25911245.41	25911245.53	0.2690	0.0541
Mercury	66232-12-23 14:53 G	25912157.99	25912158.12	25912158.25	0.2637	0.1098
Mercury	66243-06-27 16:48 G	25915996.11	25915996.20	25915996.30	0.2683	0.1603
Mercury	66245-12-26 15:22 G	25916909.00	25916909.14	25916909.29	0.2636	0.0415
Venus	66247-07-01 15:07 G	25917461.01	25917461.13	25917461.25	0.2689	0.1673
Mercury	66250-06-20 10:48 G	25918545.87	25918545.95	25918546.03	0.2699	0.1948

Venus	66255-06-29 07:27 G	25920380.72	25920380.81	25920380.91	0.2694	0.2063
Mercury	66258-12-29 16:34 G	25921660.11	25921660.19	25921660.28	0.2638	0.2112
Mercury	66263-06-23 07:12 G	25923296.69	25923296.80	25923296.92	0.2693	0.0484
Mercury	66265-12-21 19:41 G	25924209.27	25924209.32	25924209.38	0.2639	0.2409
Mercury	66276-06-25 02:53 G	25928047.51	25928047.62	25928047.73	0.2688	0.0633
Mercury	66278-12-24 20:39 G	25928960.23	25928960.36	25928960.49	0.2637	0.0949
Mercury	66289-06-27 21:51 G	25932798.33	25932798.41	25932798.49	0.2682	0.1930
Mercury	66291-12-27 21:07 G	25933711.24	25933711.38	25933711.52	0.2636	0.0805
Mercury	66296-06-20 16:05 G	25935348.08	25935348.17	25935348.26	0.2698	0.1623
Mercury	66304-12-30 22:19 G	25938462.38	25938462.43	25938462.49	0.2639	0.2453
Mercury	66309-06-24 12:29 G	25940098.90	25940099.02	25940099.13	0.2693	0.0373
Mercury	66311-12-24 01:41 G	25941011.50	25941011.57	25941011.64	0.2638	0.2268
Mercury	66322-06-27 07:55 G	25944849.72	25944849.83	25944849.93	0.2686	0.0997
Mercury	66324-12-26 02:10 G	25945762.45	25945762.59	25945762.73	0.2636	0.0500
Mercury	66335-06-30 02:53 G	25949600.54	25949600.62	25949600.69	0.2682	0.2028
Mercury	66337-12-29 03:07 G	25950513.49	25950513.63	25950513.76	0.2636	0.0991
Mercury	66342-06-22 21:22 G	25952150.29	25952150.39	25952150.49	0.2697	0.1364
Venus	66353-01-03 15:07 G	25955998.00	25955998.13	25955998.25	0.2647	0.1535
Mercury	66355-06-25 17:31 G	25956901.11	25956901.23	25956901.34	0.2693	0.0113
Mercury	66357-12-24 07:12 G	25957813.70	25957813.80	25957813.91	0.2638	0.1822
Venus	66361-01-01 10:19 G	25958917.78	25958917.93	25958918.07	0.2650	0.0782
Mercury	66368-06-27 12:43 G	25961651.93	25961652.03	25961652.14	0.2685	0.1091
Mercury	66370-12-27 07:55 G	25962564.69	25962564.83	25962564.97	0.2636	0.0374
Mercury	66375-06-21 05:46 G	25964201.70	25964201.74	25964201.79	0.2699	0.2467
Mercury	66381-06-30 07:41 G	25966402.77	25966402.82	25966402.88	0.2682	0.2365
Mercury	66383-12-30 08:53 G	25967315.75	25967315.87	25967315.99	0.2636	0.1458
Mercury	66388-06-23 02:39 G	25968952.50	25968952.61	25968952.72	0.2696	0.1152
Mercury	66401-06-25 22:34 G	25973703.32	25973703.44	25973703.55	0.2691	0.0161
Mercury	66403-12-25 12:58 G	25974615.94	25974616.04	25974616.15	0.2638	0.1641
Mercury	66414-06-28 17:46 G	25978454.14	25978454.24	25978454.34	0.2684	0.1431

Mercury	66416-12-27 13:41 G	25979366.92	25979367.07	25979367.21	0.2635	0.0109
Mercury	66421-06-21 11:17 G	25981003.91	25981003.97	25981004.03	0.2699	0.2302
Mercury	66427-07-01 12:29 G	25983204.98	25983205.02	25983205.07	0.2681	0.2441
Mercury	66429-12-30 14:24 G	25984117.99	25984118.10	25984118.22	0.2637	0.1588
Mercury	66434-06-24 07:41 G	25985754.71	25985754.82	25985754.93	0.2696	0.0837
Mercury	66447-06-27 03:36 G	25990505.53	25990505.65	25990505.76	0.2689	0.0386
Mercury	66449-12-25 18:43 G	25991418.16	25991418.28	25991418.40	0.2637	0.1288
Mercury	66460-06-28 22:48 G	25995256.36	25995256.45	25995256.55	0.2684	0.1564
Mercury	66462-12-28 19:27 G	25996169.17	25996169.31	25996169.45	0.2635	0.0263
Mercury	66467-06-22 16:34 G	25997806.11	25997806.19	25997806.27	0.2699	0.1903
Mercury	66475-12-31 20:10 G	26000920.25	26000920.34	26000920.43	0.2638	0.2055
Mercury	66480-06-24 12:43 G	26002556.92	26002557.03	26002557.15	0.2695	0.0699
Venus	66490-07-03 01:41 G	26006217.47	26006217.57	26006217.67	0.2689	0.2086
Mercury	66493-06-27 08:39 G	26007307.74	26007307.86	26007307.97	0.2688	0.0670
Mercury	66495-12-27 00:29 G	26008220.39	26008220.52	26008220.65	0.2636	0.0977
Venus	66498-06-30 14:24 G	26009136.94	26009137.10	26009137.25	0.2685	0.1025
Mercury	66506-07-01 03:36 G	26012058.57	26012058.65	26012058.74	0.2684	0.1823
Mercury	66508-12-30 01:12 G	26012971.41	26012971.55	26012971.69	0.2636	0.0671
Mercury	66513-06-23 21:51 G	26014608.32	26014608.41	26014608.50	0.2699	0.1788
Mercury	66522-01-02 01:55 G	26017722.50	26017722.58	26017722.66	0.2638	0.2213
Mercury	66526-06-26 18:00 G	26019359.13	26019359.25	26019359.37	0.2693	0.0322
Mercury	66528-12-25 05:31 G	26020271.66	26020271.73	26020271.80	0.2639	0.2231
Mercury	66539-06-29 13:41 G	26024109.96	26024110.07	26024110.18	0.2688	0.0820
Mercury	66541-12-28 06:15 G	26025022.62	26025022.76	26025022.90	0.2635	0.0737
Mercury	66552-07-01 08:39 G	26028860.78	26028860.86	26028860.93	0.2682	0.2034
Mercury	66554-12-31 06:43 G	26029773.65	26029773.78	26029773.92	0.2636	0.0925
Mercury	66559-06-25 02:53 G	26031410.52	26031410.62	26031410.72	0.2698	0.1403
Mercury	66572-06-26 23:17 G	26036161.35	26036161.47	26036161.58	0.2692	0.0235
Mercury	66574-12-26 11:17 G	26037073.89	26037073.97	26037074.06	0.2637	0.2090
Mercury	66585-06-29 18:43 G	26040912.17	26040912.28	26040912.38	0.2687	0.1148

Mercury	66587-12-29 12:00 G	26041824.86	26041825.00	26041825.14	0.2635	0.0332
Mercury	66592-06-22 11:31 G	26043461.95	26043461.98	26043462.02	0.2700	0.2577
Mercury	66598-07-02 13:27 G	26045663.00	26045663.06	26045663.13	0.2682	0.2194
Mercury	66601-01-01 12:29 G	26046575.89	26046576.02	26046576.15	0.2636	0.1189
Venus	66604-01-04 20:10 G	26047674.18	26047674.34	26047674.50	0.2639	0.0551
Mercury	66605-06-26 08:10 G	26048212.73	26048212.84	26048212.94	0.2697	0.1265
Mercury	66618-06-29 04:19 G	26052963.56	26052963.68	26052963.80	0.2691	0.0182
Mercury	66620-12-27 17:03 G	26053876.10	26053876.21	26053876.32	0.2636	0.1616
Mercury	66631-07-01 23:46 G	26057714.38	26057714.49	26057714.59	0.2686	0.1248
Mercury	66633-12-30 17:46 G	26058627.09	26058627.24	26058627.38	0.2636	0.0189
Mercury	66638-06-24 16:48 G	26060264.14	26060264.20	26060264.26	0.2700	0.2319
Mercury	66644-07-03 18:29 G	26062465.23	26062465.27	26062465.31	0.2681	0.2505
Mercury	66647-01-02 18:15 G	26063378.15	26063378.26	26063378.38	0.2636	0.1584
Mercury	66651-06-27 13:27 G	26065014.94	26065015.06	26065015.17	0.2696	0.0943
Mercury	66664-06-29 09:22 G	26069765.77	26069765.89	26069766.01	0.2691	0.0271
Mercury	66666-12-28 22:48 G	26070678.34	26070678.45	26070678.57	0.2636	0.1487
Mercury	66677-07-02 04:34 G	26074516.60	26074516.69	26074516.78	0.2684	0.1592
Mercury	66679-12-31 23:17 G	26075429.32	26075429.47	26075429.61	0.2635	0.0279
Mercury	66684-06-24 22:05 G	26077066.34	26077066.42	26077066.49	0.2700	0.2102
Mercury	66690-07-04 23:31 G	26079267.45	26079267.48	26079267.50	0.2682	0.2609
Mercury	66693-01-03 00:15 G	26080180.40	26080180.51	26080180.61	0.2636	0.1788
Mercury	66697-06-27 18:29 G	26081817.16	26081817.27	26081817.39	0.2695	0.0702
Mercury	66710-07-01 14:24 G	26086567.98	26086568.10	26086568.21	0.2690	0.0614
Mercury	66712-12-30 04:34 G	26087480.56	26087480.69	26087480.82	0.2636	0.1031
Mercury	66723-07-04 09:36 G	26091318.81	26091318.90	26091318.99	0.2683	0.1679
Mercury	66726-01-02 04:48 G	26092231.56	26092231.70	26092231.85	0.2635	0.0402
Mercury	66730-06-27 03:07 G	26093868.55	26093868.63	26093868.72	0.2699	0.1769
Venus	66733-07-05 15:22 G	26094973.00	26094973.14	26094973.29	0.2684	0.1385
Mercury	66739-01-05 06:00 G	26096982.67	26096982.75	26096982.82	0.2638	0.2243
Mercury	66743-06-29 23:46 G	26098619.37	26098619.49	26098619.60	0.2694	0.0476

Mercury	66745-12-28 09:51 G	26099531.85	26099531.91	26099531.96	0.2638	0.2405
Mercury	66756-07-01 19:27 G	26103370.19	26103370.31	26103370.42	0.2688	0.0773
Mercury	66758-12-31 10:19 G	26104282.79	26104282.93	26104283.06	0.2636	0.0865
Mercury	66769-07-04 14:24 G	26108121.03	26108121.10	26108121.18	0.2683	0.2028
Mercury	66772-01-03 10:34 G	26109033.81	26109033.94	26109034.08	0.2635	0.0878
Mercury	66776-06-27 08:39 G	26110670.76	26110670.86	26110670.95	0.2698	0.1610
Mercury	66785-01-05 11:31 G	26113784.92	26113784.98	26113785.04	0.2639	0.2378
Mercury	66789-06-30 04:48 G	26115421.58	26115421.70	26115421.82	0.2694	0.0189
Mercury	66791-12-29 15:36 G	26116334.06	26116334.15	26116334.23	0.2638	0.2073
Mercury	66802-07-03 00:29 G	26120172.41	26120172.52	26120172.63	0.2686	0.1013
Mercury	66804-12-31 15:51 G	26121085.02	26121085.16	26121085.30	0.2635	0.0516
Mercury	66815-07-05 19:27 G	26124923.24	26124923.31	26124923.38	0.2683	0.2145
Mercury	66818-01-03 16:34 G	26125836.06	26125836.19	26125836.32	0.2635	0.1042
Mercury	66822-06-28 13:41 G	26127472.97	26127473.07	26127473.18	0.2698	0.1215
Mercury	66835-07-01 09:51 G	26132223.80	26132223.91	26132224.03	0.2692	0.0075
Mercury	66837-12-29 21:07 G	26133136.29	26133136.38	26133136.48	0.2637	0.1846
Venus	66839-01-07 20:53 G	26133510.31	26133510.37	26133510.43	0.2641	0.2426
Venus	66847-01-05 13:12 G	26136429.90	26136430.05	26136430.20	0.2645	0.0728
Mercury	66848-07-03 05:31 G	26136974.62	26136974.73	26136974.83	0.2686	0.1273
Mercury	66851-01-01 21:36 G	26137887.25	26137887.40	26137887.54	0.2634	0.0220
Mercury	66855-06-26 22:19 G	26139524.37	26139524.43	26139524.48	0.2700	0.2363
Mercury	66861-07-06 00:15 G	26141725.46	26141725.51	26141725.56	0.2683	0.2393
Mercury	66864-01-04 22:05 G	26142638.30	26142638.42	26142638.54	0.2636	0.1444
Mercury	66868-06-28 18:58 G	26144275.18	26144275.29	26144275.40	0.2697	0.1113
Mercury	66881-07-01 14:53 G	26149026.01	26149026.12	26149026.24	0.2690	0.0342
Mercury	66883-12-31 02:53 G	26149938.50	26149938.62	26149938.73	0.2636	0.1454
Mercury	66894-07-04 10:19 G	26153776.84	26153776.93	26153777.03	0.2686	0.1442
Mercury	66897-01-02 03:22 G	26154689.50	26154689.64	26154689.78	0.2634	0.0057
Mercury	66901-06-28 03:36 G	26156326.58	26156326.65	26156326.72	0.2700	0.2180
Mercury	66907-07-08 05:03 G	26158527.69	26158527.71	26158527.74	0.2682	0.2610

Mercury	66910-01-06 03:51 G	26159440.55	26159440.66	26159440.77	0.2637	0.1697
Mercury	66914-07-01 00:00 G	26161077.39	26161077.50	26161077.62	0.2697	0.0730
Mercury	66927-07-03 20:10 G	26165828.22	26165828.34	26165828.46	0.2689	0.0423
Mercury	66930-01-01 08:24 G	26166740.73	26166740.85	26166740.98	0.2635	0.1313
Mercury	66940-07-05 15:22 G	26170579.05	26170579.14	26170579.23	0.2685	0.1737
Mercury	66943-01-04 09:07 G	26171491.74	26171491.88	26171492.02	0.2635	0.0433
Mercury	66947-06-29 08:53 G	26173128.79	26173128.87	26173128.95	0.2700	0.1869
Mercury	66956-01-07 09:36 G	26176242.80	26176242.90	26176242.99	0.2637	0.1986
Mercury	66960-07-01 05:17 G	26177879.61	26177879.72	26177879.84	0.2695	0.0591
Mercury	66962-12-30 13:55 G	26178792.05	26178792.08	26178792.10	0.2638	0.2586
Mercury	66973-07-04 01:12 G	26182630.44	26182630.55	26182630.66	0.2689	0.0806
Mercury	66976-01-02 14:10 G	26183542.96	26183543.09	26183543.22	0.2634	0.0838
Venus	66976-07-06 22:34 G	26183729.36	26183729.44	26183729.52	0.2696	0.2300
Venus	66984-07-04 14:53 G	26186648.97	26186649.12	26186649.26	0.2693	0.1073
Mercury	66986-07-06 20:10 G	26187381.26	26187381.34	26187381.43	0.2684	0.1835
Mercury	66989-01-04 14:39 G	26188293.97	26188294.11	26188294.25	0.2635	0.0598
Mercury	66993-06-29 14:10 G	26189930.99	26189931.09	26189931.18	0.2699	0.1641

68TH MILLENNIUM CE

This is a list of transits visible from Moon in the 68th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	67002-01-08 15:22 G	26193045.08	26193045.14	26193045.20	0.2637	0.2366		
Mercury	67006-07-03 10:34 G	26194681.82	26194681.94	26194682.06	0.2693	0.0270		

Mercury	67008-12-31	19:27	G	26195594.23	26195594.31	26195594.39	0.2637	0.2159
Mercury	67019-07-06	06:15	G	26199432.65	26199432.76	26199432.87	0.2688	0.0894
Mercury	67022-01-03	19:55	G	26200345.20	26200345.33	26200345.47	0.2635	0.0714
Mercury	67032-07-08	01:12	G	26204183.48	26204183.55	26204183.61	0.2683	0.2181
Mercury	67035-01-06	20:10	G	26205096.21	26205096.34	26205096.47	0.2635	0.1038
Mercury	67039-07-01	19:12	G	26206733.20	26206733.30	26206733.40	0.2699	0.1403
Mercury	67048-01-09	21:22	G	26209847.36	26209847.39	26209847.41	0.2638	0.2590
Mercury	67052-07-03	15:36	G	26211484.03	26211484.15	26211484.27	0.2692	0.0063
Mercury	67055-01-02	01:12	G	26212396.46	26212396.55	26212396.64	0.2636	0.1943
Mercury	67065-07-06	11:03	G	26216234.86	26216234.96	26216235.07	0.2687	0.1226
Mercury	67068-01-05	01:41	G	26217147.43	26217147.57	26217147.71	0.2635	0.0265
Mercury	67072-06-29	03:51	G	26218784.63	26218784.66	26218784.69	0.2701	0.2576
Mercury	67078-07-09	06:15	G	26220985.70	26220985.76	26220985.82	0.2682	0.2267
Mercury	67081-01-07	01:55	G	26221898.45	26221898.58	26221898.71	0.2635	0.1169
Mercury	67085-07-02	00:29	G	26223535.42	26223535.52	26223535.63	0.2697	0.1074
Venus	67090-01-08	02:24	G	26225186.44	26225186.60	26225186.75	0.2643	0.0387
Venus	67098-01-05	18:00	G	26228106.23	26228106.25	26228106.26	0.2637	0.2620
Mercury	67098-07-04	20:39	G	26228286.25	26228286.36	26228286.48	0.2692	0.0206
Mercury	67101-01-03	06:58	G	26229198.68	26229198.79	26229198.91	0.2635	0.1602
Mercury	67111-07-08	16:05	G	26233037.07	26233037.17	26233037.27	0.2685	0.1372
Mercury	67114-01-06	07:12	G	26233949.66	26233949.80	26233949.94	0.2634	0.0097
Mercury	67118-07-01	09:07	G	26235586.81	26235586.88	26235586.95	0.2701	0.2173
Mercury	67124-07-10	11:03	G	26237787.94	26237787.96	26237787.99	0.2683	0.2607
Mercury	67127-01-09	07:41	G	26238700.71	26238700.82	26238700.93	0.2636	0.1662
Mercury	67131-07-04	05:46	G	26240337.63	26240337.74	26240337.85	0.2696	0.0927
Mercury	67144-07-06	01:41	G	26245088.46	26245088.57	26245088.69	0.2691	0.0450
Mercury	67147-01-04	12:43	G	26246000.91	26246001.03	26246001.15	0.2636	0.1308
Mercury	67157-07-08	21:07	G	26249839.29	26249839.38	26249839.47	0.2684	0.1625
Mercury	67160-01-07	12:43	G	26250751.89	26250752.03	26250752.17	0.2634	0.0263
Mercury	67164-07-01	14:24	G	26252389.02	26252389.10	26252389.17	0.2700	0.2050

Mercury	67173-01-09 13:41 G	26255502.96	26255503.07	26255503.17	0.2637	0.1822
Mercury	67177-07-04 11:03 G	26257139.84	26257139.96	26257140.07	0.2696	0.0537
Mercury	67180-01-02 18:00 G	26258052.21	26258052.25	26258052.29	0.2637	0.2506
Mercury	67190-07-07 06:43 G	26261890.67	26261890.78	26261890.90	0.2689	0.0611
Mercury	67193-01-04 18:29 G	26262803.14	26262803.27	26262803.39	0.2635	0.1068
Mercury	67203-07-10 02:10 G	26266641.50	26266641.59	26266641.67	0.2684	0.1857
Mercury	67206-01-07 18:29 G	26267554.13	26267554.27	26267554.41	0.2634	0.0544
Mercury	67210-07-02 19:41 G	26269191.23	26269191.32	26269191.41	0.2699	0.1656
Mercury	67219-01-10 19:12 G	26272305.22	26272305.30	26272305.37	0.2638	0.2225
Venus	67219-07-09 18:29 G	26272485.12	26272485.27	26272485.42	0.2683	0.1263
Mercury	67223-07-05 16:05 G	26273942.05	26273942.17	26273942.29	0.2695	0.0445
Mercury	67226-01-02 23:46 G	26274854.44	26274854.49	26274854.55	0.2637	0.2391
Venus	67227-07-07 03:51 G	26275404.58	26275404.66	26275404.73	0.2688	0.2371
Mercury	67236-07-07 11:46 G	26278692.88	26278692.99	26278693.10	0.2687	0.0953
Mercury	67239-01-05 23:46 G	26279605.36	26279605.49	26279605.63	0.2634	0.0691
Mercury	67249-07-10 07:12 G	26283443.72	26283443.80	26283443.87	0.2684	0.2040
Mercury	67252-01-09 00:15 G	26284356.38	26284356.51	26284356.65	0.2634	0.0841
Mercury	67256-07-03 00:58 G	26285993.44	26285993.54	26285993.64	0.2699	0.1489
Mercury	67265-01-11 00:58 G	26289107.49	26289107.54	26289107.59	0.2639	0.2482
Mercury	67269-07-05 21:07 G	26290744.26	26290744.38	26290744.50	0.2694	0.0088
Mercury	67272-01-04 05:31 G	26291656.63	26291656.73	26291656.82	0.2637	0.1921
Mercury	67282-07-08 17:03 G	26295495.10	26295495.21	26295495.32	0.2687	0.1047
Mercury	67285-01-06 05:31 G	26296407.59	26296407.73	26296407.87	0.2633	0.0544
Mercury	67289-07-01 09:22 G	26298044.86	26298044.89	26298044.92	0.2701	0.2590
Mercury	67295-07-11 12:00 G	26300245.94	26300246.00	26300246.05	0.2684	0.2320
Mercury	67298-01-09 06:00 G	26301158.62	26301158.75	26301158.88	0.2635	0.1190
Mercury	67302-07-05 06:15 G	26302795.65	26302795.76	26302795.86	0.2698	0.1172
Mercury	67315-07-08 02:24 G	26307546.48	26307546.60	26307546.72	0.2692	0.0089
Mercury	67318-01-05 11:03 G	26308458.86	26308458.96	26308459.06	0.2636	0.1805
Mercury	67328-07-09 22:05 G	26312297.32	26312297.42	26312297.52	0.2687	0.1423

Mercury	67331-01-08 11:17 G	26313209.83	26313209.97	26313210.11	0.2633	0.0082
Venus	67333-01-09 19:41 G	26313942.16	26313942.32	26313942.47	0.2637	0.0673
Mercury	67335-07-03 14:39 G	26314847.06	26314847.11	26314847.17	0.2701	0.2360
Mercury	67341-07-12 16:48 G	26317048.15	26317048.20	26317048.25	0.2683	0.2415
Mercury	67344-01-11 11:31 G	26317960.86	26317960.98	26317961.10	0.2636	0.1365
Mercury	67348-07-05 11:17 G	26319597.86	26319597.97	26319598.08	0.2698	0.0963
Mercury	67361-07-08 07:27 G	26324348.69	26324348.81	26324348.93	0.2690	0.0395
Mercury	67364-01-06 16:48 G	26325261.08	26325261.20	26325261.31	0.2634	0.1383
Mercury	67374-07-11 02:53 G	26329099.52	26329099.62	26329099.72	0.2686	0.1501
Mercury	67377-01-08 17:03 G	26330012.07	26330012.21	26330012.35	0.2634	0.0069
Mercury	67381-07-03 19:55 G	26331649.25	26331649.33	26331649.41	0.2701	0.2000
Mercury	67390-01-11 17:17 G	26334763.11	26334763.22	26334763.32	0.2636	0.1822
Mercury	67394-07-06 16:34 G	26336400.07	26336400.19	26336400.30	0.2696	0.0717
Mercury	67407-07-10 12:29 G	26341150.91	26341151.02	26341151.14	0.2690	0.0576
Mercury	67410-01-07 22:19 G	26342063.31	26342063.43	26342063.56	0.2634	0.1183
Mercury	67420-07-12 07:41 G	26345901.74	26345901.82	26345901.91	0.2685	0.1825
Mercury	67423-01-10 22:34 G	26346814.30	26346814.44	26346814.58	0.2634	0.0498
Mercury	67427-07-06 01:12 G	26348451.46	26348451.55	26348451.63	0.2701	0.1871
Mercury	67436-01-13 23:03 G	26351565.37	26351565.46	26351565.56	0.2636	0.1962
Mercury	67440-07-07 21:51 G	26353202.29	26353202.41	26353202.52	0.2694	0.0405
Mercury	67443-01-06 03:51 G	26354114.60	26354114.66	26354114.72	0.2636	0.2370
Mercury	67453-07-10 17:31 G	26357953.12	26357953.23	26357953.35	0.2690	0.0843
Mercury	67456-01-09 04:05 G	26358865.54	26358865.67	26358865.81	0.2634	0.0819
Venus	67462-07-11 18:29 G	26361241.17	26361241.27	26361241.37	0.2698	0.2013
Mercury	67466-07-13 12:43 G	26362703.95	26362704.03	26362704.11	0.2684	0.1960
Mercury	67469-01-11 04:05 G	26363616.53	26363616.67	26363616.81	0.2634	0.0664
Venus	67470-07-09 12:15 G	26364160.90	26364161.01	26364161.13	0.2698	0.1790
Mercury	67473-07-06 06:29 G	26365253.67	26365253.77	26365253.86	0.2700	0.1478
Mercury	67482-01-14 05:03 G	26368367.66	26368367.71	26368367.76	0.2637	0.2465
Mercury	67486-07-09 02:53 G	26370004.50	26370004.62	26370004.74	0.2694	0.0260

Mercury	67489-01-06 09:36 G	26370916.82	26370916.90	26370916.98	0.2635	0.2177
Mercury	67499-07-11 22:34 G	26374755.33	26374755.44	26374755.55	0.2689	0.1069
Mercury	67502-01-10 09:51 G	26375667.77	26375667.91	26375668.05	0.2634	0.0555
Mercury	67506-07-05 14:53 G	26377305.09	26377305.12	26377305.14	0.2702	0.2625
Mercury	67512-07-14 17:46 G	26379506.18	26379506.24	26379506.30	0.2683	0.2232
Mercury	67515-01-13 09:51 G	26380418.78	26380418.91	26380419.04	0.2634	0.1048
Mercury	67519-07-08 11:46 G	26382055.88	26382055.99	26382056.09	0.2698	0.1351
Mercury	67528-01-16 10:48 G	26385169.94	26385169.95	26385169.96	0.2639	0.2617
Mercury	67532-07-10 08:10 G	26386806.72	26386806.84	26386806.96	0.2693	0.0141
Mercury	67535-01-08 15:22 G	26387719.04	26387719.14	26387719.24	0.2635	0.1735
Mercury	67545-07-13 03:36 G	26391557.54	26391557.65	26391557.75	0.2687	0.1226
Mercury	67548-01-11 15:22 G	26392470.00	26392470.14	26392470.28	0.2634	0.0306
Mercury	67552-07-05 19:55 G	26394107.29	26394107.33	26394107.38	0.2702	0.2468
Mercury	67558-07-15 22:48 G	26396308.40	26396308.45	26396308.49	0.2684	0.2440
Mercury	67561-01-13 15:36 G	26397221.03	26397221.15	26397221.28	0.2634	0.1310
Mercury	67565-07-08 17:03 G	26398858.10	26398858.21	26398858.32	0.2697	0.0959
Venus	67576-01-13 05:03 G	26402698.57	26402698.71	26402698.85	0.2646	0.0767
Mercury	67578-07-11 13:12 G	26403608.93	26403609.05	26403609.17	0.2693	0.0221
Mercury	67581-01-08 21:07 G	26404521.27	26404521.38	26404521.49	0.2635	0.1611
Venus	67584-01-11 00:29 G	26405618.49	26405618.52	26405618.55	0.2641	0.2592
Mercury	67591-07-14 08:39 G	26408359.76	26408359.86	26408359.95	0.2686	0.1559
Mercury	67594-01-11 20:53 G	26409272.23	26409272.37	26409272.51	0.2633	0.0078
Mercury	67598-07-07 01:12 G	26410909.48	26410909.55	26410909.63	0.2701	0.2138
Mercury	67604-07-16 03:36 G	26413110.63	26413110.65	26413110.67	0.2684	0.2623
Mercury	67607-01-14 21:22 G	26414023.28	26414023.39	26414023.51	0.2635	0.1622
Mercury	67611-07-09 22:19 G	26415660.31	26415660.43	26415660.54	0.2697	0.0819
Mercury	67624-07-11 18:15 G	26420411.14	26420411.26	26420411.37	0.2691	0.0592
Mercury	67627-01-10 02:39 G	26421323.48	26421323.61	26421323.73	0.2635	0.1156
Mercury	67637-07-14 13:41 G	26425161.98	26425162.07	26425162.16	0.2685	0.1657
Mercury	67640-01-13 02:39 G	26426074.47	26426074.61	26426074.75	0.2633	0.0229

Mercury	67644-07-07 06:43 G	26427711.70	26427711.78	26427711.86	0.2700	0.1873
Mercury	67653-01-15 02:53 G	26430825.53	26430825.62	26430825.72	0.2637	0.1971
Mercury	67657-07-10 03:22 G	26432462.52	26432462.64	26432462.76	0.2697	0.0479
Mercury	67660-01-08 08:10 G	26433374.79	26433374.84	26433374.90	0.2636	0.2430
Mercury	67670-07-12 23:17 G	26437213.35	26437213.47	26437213.58	0.2689	0.0692
Mercury	67673-01-10 08:10 G	26438125.71	26438125.84	26438125.97	0.2634	0.1041
Mercury	67683-07-15 18:43 G	26441964.20	26441964.28	26441964.35	0.2685	0.2018
Mercury	67686-01-13 08:24 G	26442876.71	26442876.85	26442876.98	0.2633	0.0699
Mercury	67690-07-08 12:00 G	26444513.91	26444514.00	26444514.09	0.2700	0.1650
Mercury	67699-01-16 08:39 G	26447627.78	26447627.86	26447627.94	0.2638	0.2150
Mercury	67703-07-12 08:24 G	26449264.73	26449264.85	26449264.97	0.2695	0.0301
Venus	67705-07-13 21:51 G	26449997.29	26449997.41	26449997.53	0.2686	0.1836
Mercury	67706-01-09 13:55 G	26450177.01	26450177.08	26450177.15	0.2636	0.2233
Venus	67713-07-11 06:15 G	26452916.63	26452916.76	26452916.89	0.2687	0.1746
Mercury	67716-07-14 04:19 G	26454015.57	26454015.68	26454015.79	0.2688	0.1034
Mercury	67719-01-12 13:55 G	26454927.94	26454928.08	26454928.21	0.2633	0.0611
Mercury	67729-07-16 23:31 G	26458766.41	26458766.48	26458766.55	0.2685	0.2095
Mercury	67732-01-15 13:55 G	26459678.95	26459679.08	26459679.22	0.2634	0.0824
Mercury	67736-07-09 17:17 G	26461316.12	26461316.22	26461316.32	0.2700	0.1307
Mercury	67745-01-17 14:24 G	26464430.09	26464430.10	26464430.11	0.2638	0.2619
Mercury	67749-07-12 13:41 G	26466066.95	26466067.07	26466067.19	0.2693	0.0090
Mercury	67752-01-10 19:27 G	26466979.22	26466979.31	26466979.41	0.2635	0.1908
Mercury	67762-07-15 09:22 G	26470817.78	26470817.89	26470818.00	0.2688	0.1182
Mercury	67765-01-12 19:41 G	26471730.18	26471730.32	26471730.45	0.2633	0.0430
Mercury	67769-07-08 01:41 G	26473367.52	26473367.57	26473367.62	0.2701	0.2429
Mercury	67775-07-18 04:19 G	26475568.64	26475568.68	26475568.73	0.2684	0.2417
Mercury	67778-01-15 19:27 G	26476481.19	26476481.31	26476481.44	0.2635	0.1269
Mercury	67782-07-10 22:34 G	26478118.33	26478118.44	26478118.54	0.2699	0.1170
Mercury	67795-07-13 18:43 G	26482869.16	26482869.28	26482869.40	0.2692	0.0261
Mercury	67798-01-11 01:12 G	26483781.44	26483781.55	26483781.66	0.2634	0.1600

Mercury	67808-07-16 14:24 G	26487620.00	26487620.10	26487620.20	0.2687	0.1458
Mercury	67811-01-15 01:12 G	26488532.41	26488532.55	26488532.69	0.2633	0.0054
Mercury	67815-07-10 06:58 G	26490169.73	26490169.79	26490169.85	0.2702	0.2297
Venus	67819-01-15 05:31 G	26491454.56	26491454.73	26491454.89	0.2633	0.0340
Mercury	67821-07-19 09:22 G	26492370.86	26492370.89	26492370.93	0.2683	0.2546
Mercury	67824-01-18 01:12 G	26493283.43	26493283.55	26493283.67	0.2635	0.1426
Venus	67827-01-12 18:15 G	26494374.24	26494374.26	26494374.29	0.2634	0.2590
Mercury	67828-07-12 03:36 G	26494920.54	26494920.65	26494920.77	0.2698	0.0783
Mercury	67841-07-15 00:00 G	26499671.38	26499671.50	26499671.61	0.2691	0.0411
Mercury	67844-01-13 06:43 G	26500583.67	26500583.78	26500583.90	0.2633	0.1399
Mercury	67854-07-17 19:27 G	26504422.21	26504422.31	26504422.40	0.2686	0.1677
Mercury	67857-01-15 06:43 G	26505334.64	26505334.78	26505334.92	0.2633	0.0204
Mercury	67861-07-10 12:15 G	26506971.92	26506972.01	26506972.09	0.2702	0.1909
Mercury	67870-01-18 06:58 G	26510085.69	26510085.79	26510085.89	0.2635	0.1846
Mercury	67874-07-13 08:53 G	26511722.76	26511722.87	26511722.99	0.2696	0.0667
Mercury	67887-07-16 05:03 G	26516473.59	26516473.71	26516473.82	0.2691	0.0758
Mercury	67890-01-13 12:29 G	26517385.89	26517386.02	26517386.15	0.2633	0.0978
Mercury	67900-07-19 00:15 G	26521224.43	26521224.51	26521224.60	0.2685	0.1834
Mercury	67903-01-17 12:15 G	26522136.87	26522137.01	26522137.15	0.2633	0.0445
Mercury	67907-07-12 17:31 G	26523774.14	26523774.23	26523774.32	0.2701	0.1764
Mercury	67916-01-20 12:43 G	26526887.95	26526888.03	26526888.12	0.2636	0.2083
Mercury	67920-07-14 14:10 G	26528524.97	26528525.09	26528525.21	0.2695	0.0279
Mercury	67923-01-12 18:00 G	26529437.18	26529437.25	26529437.33	0.2634	0.2217
Mercury	67933-07-17 10:05 G	26533275.80	26533275.92	26533276.03	0.2690	0.0855
Mercury	67936-01-15 18:00 G	26534188.12	26534188.25	26534188.39	0.2633	0.0841
Mercury	67946-07-20 05:17 G	26538026.65	26538026.72	26538026.79	0.2684	0.2156
Venus	67948-07-15 14:24 G	26538752.96	26538753.10	26538753.24	0.2698	0.1166
Mercury	67949-01-17 18:00 G	26538939.11	26538939.25	26538939.38	0.2633	0.0839
Mercury	67953-07-12 22:48 G	26540576.35	26540576.45	26540576.55	0.2700	0.1427
Venus	67956-07-13 07:41 G	26541672.74	26541672.82	26541672.90	0.2701	0.2285

Mercury	67962-01-20 18:29 G	26543690.22	26543690.27	26543690.33	0.2637	0.2412
Mercury	67966-07-15 19:12 G	26545327.19	26545327.30	26545327.42	0.2695	0.0180
Mercury	67969-01-12 23:46 G	26546239.41	26546239.49	26546239.58	0.2634	0.2082
Mercury	67979-07-18 14:53 G	26550078.02	26550078.12	26550078.23	0.2688	0.1219
Mercury	67982-01-15 23:31 G	26550990.34	26550990.48	26550990.62	0.2633	0.0410
Mercury	67986-07-11 06:58 G	26552627.77	26552627.79	26552627.81	0.2703	0.2633
Mercury	67992-07-20 10:19 G	26554828.87	26554828.93	26554828.99	0.2684	0.2262
Mercury	67995-01-18 23:31 G	26555741.35	26555741.48	26555741.62	0.2633	0.1007
Mercury	67999-07-14 04:05 G	26557378.56	26557378.67	26557378.77	0.2698	0.1173

69TH MILLENNIUM CE

This is a list of transits visible from Moon in the 69th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	68012-07-16 00:29 G		26562129.40	26562129.52	26562129.63	0.2694	0.0217	
Mercury	68015-01-14 05:31 G		26563041.62	26563041.73	26563041.84	0.2634	0.1645	
Mercury	68025-07-18 20:10 G		26566880.23	26566880.34	26566880.44	0.2687	0.1311	
Mercury	68028-01-17 05:03 G		26567792.57	26567792.71	26567792.85	0.2632	0.0293	
Mercury	68032-07-11 12:15 G		26569429.95	26569430.01	26569430.07	0.2702	0.2286	
Mercury	68038-07-21 15:07 G		26571631.11	26571631.13	26571631.16	0.2685	0.2603	
Mercury	68041-01-19 05:17 G		26572543.61	26572543.72	26572543.84	0.2634	0.1468	
Mercury	68045-07-14 09:22 G		26574180.77	26574180.89	26574181.00	0.2698	0.0952	
Mercury	68058-07-17 05:31 G		26578931.61	26578931.73	26578931.85	0.2692	0.0360	
Mercury	68061-01-14 11:03 G		26579843.85	26579843.96	26579844.08	0.2634	0.1475	

Venus	68062-01-16 06:58 G	26580210.64	26580210.79	26580210.94	0.2645	0.0467
Venus	68070-01-14 03:51 G	26583130.60	26583130.66	26583130.72	0.2644	0.2400
Mercury	68071-07-20 00:58 G	26583682.45	26583682.54	26583682.64	0.2686	0.1662
Mercury	68074-01-17 10:48 G	26584594.81	26584594.95	26584595.09	0.2632	0.0163
Mercury	68078-07-12 17:46 G	26586232.16	26586232.24	26586232.31	0.2701	0.2118
Mercury	68084-07-21 20:10 G	26588433.33	26588433.34	26588433.34	0.2684	0.2681
Mercury	68087-01-20 11:03 G	26589345.85	26589345.96	26589346.07	0.2636	0.1593
Mercury	68091-07-15 14:24 G	26590982.99	26590983.10	26590983.22	0.2698	0.0633
Mercury	68094-01-12 17:03 G	26591895.19	26591895.21	26591895.22	0.2635	0.2620
Mercury	68104-07-18 10:34 G	26595733.82	26595733.94	26595734.06	0.2690	0.0607
Mercury	68107-01-16 16:34 G	26596646.07	26596646.19	26596646.32	0.2633	0.1150
Mercury	68117-07-21 06:00 G	26600484.67	26600484.75	26600484.84	0.2686	0.1789
Mercury	68120-01-19 16:34 G	26601397.05	26601397.19	26601397.33	0.2632	0.0334
Mercury	68124-07-13 23:03 G	26603034.37	26603034.46	26603034.55	0.2701	0.1711
Mercury	68133-01-21 16:48 G	26606148.11	26606148.20	26606148.28	0.2636	0.2057
Mercury	68137-07-16 19:41 G	26607785.20	26607785.32	26607785.44	0.2697	0.0476
Mercury	68140-01-14 22:34 G	26608697.39	26608697.44	26608697.49	0.2636	0.2431
Mercury	68150-07-19 15:36 G	26612536.04	26612536.15	26612536.27	0.2689	0.0891
Mercury	68153-01-16 22:05 G	26613448.29	26613448.42	26613448.56	0.2632	0.0854
Mercury	68163-07-22 11:03 G	26617286.88	26617286.96	26617287.03	0.2686	0.2057
Mercury	68166-01-19 22:05 G	26618199.29	26618199.42	26618199.56	0.2633	0.0716
Mercury	68170-07-15 04:19 G	26619836.58	26619836.68	26619836.77	0.2701	0.1599
Mercury	68179-01-22 22:19 G	26622950.36	26622950.43	26622950.51	0.2637	0.2208
Mercury	68183-07-18 00:43 G	26624587.41	26624587.53	26624587.65	0.2695	0.0123
Mercury	68186-01-15 04:05 G	26625499.58	26625499.67	26625499.76	0.2635	0.2032
Venus	68191-07-17 23:46 G	26627509.44	26627509.49	26627509.54	0.2693	0.2534
Mercury	68196-07-19 20:53 G	26629338.26	26629338.37	26629338.48	0.2689	0.1053
Mercury	68199-01-18 03:51 G	26630250.52	26630250.66	26630250.80	0.2632	0.0629
Venus	68199-07-15 10:34 G	26630428.81	26630428.94	26630429.08	0.2690	0.1615
Mercury	68209-07-23 15:51 G	26634089.10	26634089.16	26634089.22	0.2685	0.2270

Mercury	68212-01-22 03:36 G	26635001.52	26635001.65	26635001.79	0.2634	0.0967
Mercury	68216-07-16 09:22 G	26636638.79	26636638.89	26636639.00	0.2700	0.1202
Mercury	68229-07-19 06:00 G	26641389.63	26641389.75	26641389.87	0.2693	0.0006
Mercury	68232-01-17 09:36 G	26642301.81	26642301.90	26642302.00	0.2633	0.1905
Mercury	68242-07-22 01:41 G	26646140.47	26646140.57	26646140.68	0.2689	0.1372
Mercury	68245-01-19 09:36 G	26647052.76	26647052.90	26647053.04	0.2632	0.0237
Mercury	68249-07-14 17:46 G	26648690.19	26648690.24	26648690.30	0.2702	0.2395
Mercury	68255-07-24 20:53 G	26650891.32	26650891.37	26650891.42	0.2684	0.2437
Mercury	68258-01-22 09:22 G	26651803.76	26651803.89	26651804.01	0.2634	0.1215
Mercury	68262-07-17 14:39 G	26653441.00	26653441.11	26653441.22	0.2699	0.1067
Mercury	68275-07-20 11:03 G	26658191.84	26658191.96	26658192.08	0.2692	0.0398
Mercury	68278-01-17 15:07 G	26659104.02	26659104.13	26659104.25	0.2632	0.1454
Mercury	68288-07-22 06:43 G	26662942.68	26662942.78	26662942.88	0.2687	0.1470
Mercury	68291-01-20 15:07 G	26663854.99	26663855.13	26663855.27	0.2632	0.0084
Mercury	68295-07-15 23:03 G	26665492.39	26665492.46	26665492.53	0.2703	0.2140
Mercury	68304-01-24 15:07 G	26668606.01	26668606.13	26668606.24	0.2634	0.1605
Venus	68305-01-19 14:53 G	26668966.99	26668967.12	26668967.25	0.2632	0.1585
Mercury	68308-07-18 19:55 G	26670243.22	26670243.33	26670243.45	0.2697	0.0727
Venus	68313-01-17 03:22 G	26671886.54	26671886.64	26671886.75	0.2630	0.2040
Mercury	68321-07-21 16:19 G	26674994.06	26674994.18	26674994.29	0.2692	0.0491
Mercury	68324-01-19 21:07 G	26675906.26	26675906.38	26675906.50	0.2632	0.1324
Mercury	68334-07-24 11:46 G	26679744.90	26679744.99	26679745.07	0.2686	0.1826
Mercury	68337-01-21 20:39 G	26680657.22	26680657.36	26680657.50	0.2633	0.0353
Mercury	68341-07-17 04:19 G	26682294.60	26682294.68	26682294.76	0.2702	0.1908
Mercury	68350-01-24 20:39 G	26685408.26	26685408.36	26685408.47	0.2635	0.1795
Mercury	68354-07-20 01:12 G	26687045.43	26687045.55	26687045.67	0.2696	0.0495
Mercury	68357-01-17 02:53 G	26687957.57	26687957.62	26687957.66	0.2634	0.2486
Mercury	68367-07-22 21:22 G	26691796.27	26691796.39	26691796.50	0.2691	0.0844
Mercury	68370-01-20 02:39 G	26692708.48	26692708.61	26692708.74	0.2632	0.0887
Mercury	68380-07-24 16:48 G	26696547.11	26696547.20	26696547.28	0.2685	0.1914

Mercury	68383-01-23 02:10 G	26697459.45	26697459.59	26697459.73	0.2632	0.0468
Mercury	68387-07-18 09:36 G	26699096.80	26699096.90	26699097.00	0.2701	0.1571
Mercury	68396-01-26 02:24 G	26702210.53	26702210.60	26702210.68	0.2636	0.2249
Mercury	68400-07-20 06:29 G	26703847.65	26703847.77	26703847.89	0.2696	0.0265
Mercury	68403-01-18 08:24 G	26704759.78	26704759.85	26704759.93	0.2633	0.2190
Mercury	68413-07-23 02:10 G	26708598.48	26708598.59	26708598.71	0.2690	0.0995
Mercury	68416-01-21 08:10 G	26709510.70	26709510.84	26709510.97	0.2632	0.0722
Mercury	68420-07-15 17:46 G	26711148.24	26711148.24	26711148.24	0.2703	0.2702
Mercury	68426-07-25 21:51 G	26713349.34	26713349.41	26713349.47	0.2685	0.2269
Mercury	68429-01-23 07:55 G	26714261.70	26714261.83	26714261.96	0.2632	0.0935
Mercury	68433-07-18 15:07 G	26715899.02	26715899.13	26715899.23	0.2699	0.1409
Venus	68434-07-19 12:43 G	26716264.87	26716265.03	26716265.18	0.2693	0.0737
Mercury	68442-01-26 08:10 G	26719012.78	26719012.84	26719012.90	0.2638	0.2378
Venus	68442-07-17 02:39 G	26719184.53	26719184.61	26719184.69	0.2700	0.2261
Mercury	68446-07-21 11:31 G	26720649.86	26720649.98	26720650.10	0.2695	0.0026
Mercury	68449-01-18 14:10 G	26721561.99	26721562.09	26721562.19	0.2633	0.1873
Mercury	68459-07-24 07:12 G	26725400.70	26725400.80	26725400.91	0.2688	0.1247
Mercury	68462-01-21 13:41 G	26726312.93	26726313.07	26726313.20	0.2632	0.0407
Mercury	68466-07-16 23:03 G	26727950.43	26727950.46	26727950.49	0.2703	0.2585
Mercury	68472-07-26 02:39 G	26730151.56	26730151.61	26730151.67	0.2686	0.2387
Mercury	68475-01-24 13:41 G	26731063.94	26731064.07	26731064.20	0.2633	0.1093
Mercury	68479-07-19 20:10 G	26732701.23	26732701.34	26732701.46	0.2699	0.1011
Mercury	68492-07-21 16:34 G	26737452.07	26737452.19	26737452.31	0.2694	0.0211
Mercury	68495-01-19 19:41 G	26738364.22	26738364.32	26738364.43	0.2633	0.1657
Mercury	68505-07-25 12:29 G	26742202.92	26742203.02	26742203.12	0.2687	0.1498
Mercury	68508-01-23 19:12 G	26743115.16	26743115.30	26743115.44	0.2631	0.0108
Mercury	68512-07-18 04:34 G	26744752.62	26744752.69	26744752.76	0.2702	0.2180
Mercury	68518-07-28 07:27 G	26746953.80	26746953.81	26746953.83	0.2685	0.2650
Mercury	68521-01-25 19:12 G	26747866.18	26747866.30	26747866.41	0.2634	0.1474
Mercury	68525-07-21 01:27 G	26749503.45	26749503.56	26749503.67	0.2699	0.0908

Mercury	68538-07-23 21:36 G	26754254.29	26754254.40	26754254.52	0.2692	0.0554
Mercury	68541-01-21 01:12 G	26755166.43	26755166.55	26755166.67	0.2632	0.1283
Venus	68548-01-21 09:51 G	26757722.76	26757722.91	26757723.06	0.2641	0.0450
Mercury	68551-07-26 17:31 G	26759005.14	26759005.23	26759005.32	0.2687	0.1680
Mercury	68554-01-24 00:58 G	26759917.39	26759917.54	26759917.68	0.2631	0.0164
Venus	68556-01-19 05:46 G	26760642.64	26760642.74	26760642.85	0.2643	0.1810
Mercury	68558-07-19 09:51 G	26761554.83	26761554.91	26761554.99	0.2702	0.1995
Mercury	68567-01-27 00:43 G	26764668.42	26764668.53	26764668.64	0.2635	0.1730
Mercury	68571-07-22 06:43 G	26766305.66	26766305.78	26766305.89	0.2698	0.0518
Mercury	68574-01-19 07:12 G	26767217.76	26767217.80	26767217.85	0.2635	0.2460
Mercury	68584-07-24 02:53 G	26771056.50	26771056.62	26771056.74	0.2691	0.0643
Mercury	68587-01-22 06:43 G	26771968.65	26771968.78	26771968.90	0.2631	0.1153
Mercury	68597-07-26 22:19 G	26775807.35	26775807.43	26775807.51	0.2687	0.1975
Mercury	68600-01-25 06:29 G	26776719.63	26776719.77	26776719.91	0.2632	0.0510
Mercury	68604-07-20 15:07 G	26778357.04	26778357.13	26778357.22	0.2702	0.1672
Mercury	68613-01-28 06:29 G	26781470.67	26781470.77	26781470.86	0.2636	0.2004
Mercury	68617-07-23 11:46 G	26783107.87	26783107.99	26783108.11	0.2696	0.0390
Mercury	68620-01-21 12:58 G	26784019.98	26784020.04	26784020.10	0.2634	0.2346
Mercury	68630-07-26 07:55 G	26787858.72	26787858.83	26787858.94	0.2690	0.1035
Mercury	68633-01-23 12:15 G	26788770.88	26788771.01	26788771.15	0.2631	0.0696
Mercury	68643-07-29 03:22 G	26792609.56	26792609.64	26792609.71	0.2686	0.2074
Mercury	68646-01-26 12:00 G	26793521.86	26793522.00	26793522.14	0.2633	0.0668
Mercury	68650-07-21 20:24 G	26795159.25	26795159.35	26795159.45	0.2702	0.1446
Mercury	68659-01-29 12:15 G	26798272.95	26798273.01	26798273.07	0.2636	0.2377
Mercury	68663-07-24 17:03 G	26799910.09	26799910.21	26799910.33	0.2694	0.0044
Mercury	68666-01-21 18:29 G	26800822.17	26800822.27	26800822.36	0.2633	0.1945
Mercury	68676-07-26 13:12 G	26804660.94	26804661.05	26804661.15	0.2690	0.1126
Venus	68677-07-21 21:51 G	26805021.33	26805021.41	26805021.50	0.2700	0.2200
Mercury	68679-01-24 18:00 G	26805573.12	26805573.25	26805573.39	0.2631	0.0571
Mercury	68683-07-20 04:34 G	26807210.65	26807210.69	26807210.73	0.2703	0.2530

Venus	68685-07-19 12:43 G	26807940.91	26807941.03	26807941.14	0.2696	0.1846
Mercury	68689-07-29 08:10 G	26809411.80	26809411.84	26809411.89	0.2685	0.2429
Mercury	68692-01-27 17:31 G	26810324.10	26810324.23	26810324.36	0.2633	0.1104
Mercury	68696-07-22 01:41 G	26811961.46	26811961.57	26811961.67	0.2700	0.1196
Mercury	68705-01-30 18:00 G	26815075.23	26815075.25	26815075.27	0.2637	0.2598
Mercury	68709-07-25 22:19 G	26816712.31	26816712.43	26816712.55	0.2694	0.0173
Mercury	68712-01-24 00:00 G	26817624.39	26817624.50	26817624.60	0.2632	0.1741
Mercury	68722-07-28 18:00 G	26821463.15	26821463.25	26821463.35	0.2689	0.1463
Mercury	68725-01-25 23:31 G	26822375.34	26822375.48	26822375.62	0.2632	0.0146
Mercury	68729-07-21 09:51 G	26824012.86	26824012.91	26824012.96	0.2703	0.2395
Mercury	68735-07-31 13:27 G	26826214.02	26826214.06	26826214.09	0.2685	0.2515
Mercury	68738-01-28 23:17 G	26827126.34	26827126.47	26827126.59	0.2633	0.1232
Mercury	68742-07-24 06:58 G	26828763.67	26828763.79	26828763.90	0.2699	0.0868
Mercury	68755-07-27 03:22 G	26833514.52	26833514.64	26833514.76	0.2694	0.0426
Mercury	68758-01-24 05:31 G	26834426.62	26834426.73	26834426.85	0.2631	0.1419
Mercury	68768-07-28 23:03 G	26838265.36	26838265.46	26838265.55	0.2687	0.1605
Mercury	68771-01-27 05:03 G	26839177.57	26839177.71	26839177.85	0.2632	0.0046
Mercury	68775-07-22 15:07 G	26840815.05	26840815.13	26840815.21	0.2703	0.1986
Mercury	68784-01-30 05:03 G	26843928.60	26843928.71	26843928.81	0.2634	0.1712
Mercury	68788-07-24 12:15 G	26845565.89	26845566.01	26845566.12	0.2697	0.0716
Venus	68791-01-23 22:19 G	26846479.34	26846479.43	26846479.53	0.2636	0.2103
Venus	68799-01-21 13:27 G	26849398.93	26849399.06	26849399.19	0.2631	0.1582
Mercury	68801-07-27 08:24 G	26850316.74	26850316.85	26850316.97	0.2693	0.0674
Mercury	68804-01-25 11:17 G	26851228.84	26851228.97	26851229.09	0.2632	0.1139
Mercury	68814-07-30 04:05 G	26855067.58	26855067.67	26855067.75	0.2686	0.1869
Mercury	68817-01-27 10:34 G	26855979.80	26855979.94	26855980.08	0.2631	0.0359
Mercury	68821-07-22 20:24 G	26857617.27	26857617.35	26857617.44	0.2702	0.1862
Mercury	68830-01-30 10:34 G	26860730.85	26860730.94	26860731.04	0.2635	0.1863
Mercury	68834-07-25 17:31 G	26862368.11	26862368.23	26862368.35	0.2697	0.0330
Mercury	68837-01-22 17:17 G	26863280.15	26863280.22	26863280.28	0.2633	0.2277

Mercury	68847-07-28 13:27 G	26867118.95	26867119.06	26867119.18	0.2691	0.0843
Mercury	68850-01-25 16:48 G	26868031.06	26868031.20	26868031.33	0.2632	0.0913
Mercury	68860-07-30 09:07 G	26871869.81	26871869.88	26871869.95	0.2686	0.2097
Mercury	68863-01-28 16:05 G	26872782.04	26872782.17	26872782.31	0.2631	0.0636
Mercury	68867-07-24 01:55 G	26874419.48	26874419.58	26874419.68	0.2701	0.1459
Mercury	68876-01-31 16:19 G	26877533.11	26877533.18	26877533.25	0.2637	0.2258
Mercury	68880-07-25 22:34 G	26879170.32	26879170.44	26879170.56	0.2697	0.0228
Mercury	68883-01-23 22:48 G	26880082.38	26880082.45	26880082.53	0.2633	0.2161
Mercury	68893-07-28 18:29 G	26883921.16	26883921.27	26883921.38	0.2689	0.1179
Mercury	68896-01-26 22:05 G	26884833.28	26884833.42	26884833.55	0.2631	0.0546
Mercury	68900-07-22 09:36 G	26886470.89	26886470.90	26886470.92	0.2704	0.2680
Mercury	68906-08-01 14:10 G	26888672.03	26888672.09	26888672.15	0.2686	0.2290
Mercury	68909-01-29 21:51 G	26889584.28	26889584.41	26889584.54	0.2632	0.0908
Mercury	68913-07-25 07:12 G	26891221.69	26891221.80	26891221.90	0.2700	0.1294
Venus	68920-07-23 13:41 G	26893776.93	26893777.07	26893777.22	0.2690	0.1279
Mercury	68922-02-01 21:51 G	26894335.37	26894335.41	26894335.45	0.2637	0.2511
Mercury	68926-07-28 03:36 G	26895972.53	26895972.65	26895972.77	0.2695	0.0195
Venus	68928-07-21 00:15 G	26896696.43	26896696.51	26896696.60	0.2696	0.2300
Mercury	68929-01-25 04:34 G	26896884.58	26896884.69	26896884.79	0.2633	0.1708
Mercury	68939-07-30 23:46 G	26900723.38	26900723.49	26900723.59	0.2689	0.1281
Mercury	68942-01-28 03:36 G	26901635.52	26901635.65	26901635.79	0.2630	0.0412
Mercury	68946-07-23 15:07 G	26903273.08	26903273.13	26903273.18	0.2703	0.2413
Mercury	68952-08-01 18:58 G	26905474.26	26905474.29	26905474.32	0.2686	0.2570
Mercury	68955-01-31 03:22 G	26906386.52	26906386.64	26906386.76	0.2633	0.1261
Mercury	68959-07-26 12:29 G	26908023.90	26908024.02	26908024.13	0.2700	0.0958
Mercury	68972-07-28 08:53 G	26912774.75	26912774.87	26912774.99	0.2693	0.0280
Mercury	68975-01-26 09:51 G	26913686.80	26913686.91	26913687.02	0.2632	0.1597
Mercury	68985-07-31 04:48 G	26917525.60	26917525.70	26917525.79	0.2688	0.1657
Mercury	68988-01-29 09:22 G	26918437.75	26918437.89	26918438.03	0.2631	0.0059
Mercury	68992-07-23 20:39 G	26920075.29	26920075.36	26920075.43	0.2703	0.2172

Mercury 68998-08-03 00:00 G 26922276.49 26922276.50 26922276.50 0.2686 0.2674

70TH MILLENNIUM CE

This is a list of transits visible from Moon in the 70th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	69001-02-01 08:53	G	26923188.76	26923188.87	26923188.99	0.2634	0.1430	
Mercury	69005-07-27 17:31	G	26924826.12	26924826.23	26924826.35	0.2700	0.0758	
Mercury	69018-07-30 13:55	G	26929576.97	26929577.08	26929577.20	0.2692	0.0625	
Mercury	69021-01-27 15:22	G	26930489.02	26930489.14	26930489.26	0.2631	0.1195	
Mercury	69031-08-02 09:36	G	26934327.81	26934327.90	26934328.00	0.2688	0.1744	
Venus	69034-01-25 15:22	G	26935235.00	26935235.14	26935235.28	0.2633	0.1316	
Mercury	69034-01-30 15:07	G	26935239.99	26935240.13	26935240.27	0.2631	0.0198	
Mercury	69038-07-26 01:55	G	26936877.49	26936877.58	26936877.67	0.2703	0.1809	
Venus	69042-01-23 08:10	G	26938154.71	26938154.84	26938154.97	0.2637	0.1472	
Mercury	69047-02-02 14:39	G	26939991.01	26939991.11	26939991.20	0.2635	0.1884	
Mercury	69051-07-28 22:48	G	26941628.33	26941628.45	26941628.57	0.2698	0.0493	
Mercury	69054-01-25 21:36	G	26942540.36	26942540.40	26942540.45	0.2634	0.2433	
Mercury	69064-07-30 19:12	G	26946379.18	26946379.30	26946379.41	0.2691	0.0796	
Mercury	69067-01-28 20:53	G	26947291.25	26947291.37	26947291.50	0.2630	0.1009	
Mercury	69077-08-02 14:39	G	26951130.04	26951130.11	26951130.18	0.2687	0.2073	
Mercury	69080-01-31 20:24	G	26952042.21	26952042.35	26952042.49	0.2632	0.0597	
Mercury	69084-07-26 07:12	G	26953679.71	26953679.80	26953679.89	0.2702	0.1674	
Mercury	69093-02-02 20:24	G	26956793.26	26956793.35	26956793.44	0.2635	0.2014	

Mercury	69097-07-29 04:05 G	26958430.55	26958430.67	26958430.79	0.2696	0.0186
Mercury	69100-01-27 03:07 G	26959342.56	26959342.63	26959342.71	0.2632	0.2132
Mercury	69110-08-02 00:15 G	26963181.40	26963181.51	26963181.62	0.2691	0.1076
Mercury	69113-01-30 02:39 G	26964093.48	26964093.61	26964093.75	0.2630	0.0658
Mercury	69123-08-04 19:41 G	26967932.25	26967932.32	26967932.38	0.2686	0.2209
Mercury	69126-02-02 01:55 G	26968844.44	26968844.58	26968844.71	0.2632	0.0761
Mercury	69130-07-28 12:29 G	26970481.91	26970482.02	26970482.12	0.2702	0.1273
Mercury	69139-02-05 02:10 G	26973595.55	26973595.59	26973595.63	0.2636	0.2501
Mercury	69143-07-31 09:22 G	26975232.76	26975232.89	26975233.01	0.2695	0.0108
Mercury	69146-01-28 08:39 G	26976144.77	26976144.86	26976144.95	0.2631	0.1954
Mercury	69156-08-02 05:17 G	26979983.61	26979983.72	26979983.82	0.2690	0.1299
Mercury	69159-01-31 08:10 G	26980895.70	26980895.84	26980895.98	0.2631	0.0400
Venus	69163-07-26 18:00 G	26982533.12	26982533.25	26982533.38	0.2704	0.1371
Mercury	69163-07-26 20:39 G	26982533.31	26982533.36	26982533.41	0.2704	0.2445 *
Mercury	69169-08-05 00:43 G	26984734.49	26984734.53	26984734.57	0.2686	0.2492
Venus	69171-07-24 11:03 G	26985452.85	26985452.96	26985453.08	0.2702	0.1768
Mercury	69172-02-03 07:27 G	26985646.69	26985646.81	26985646.94	0.2632	0.1134
Mercury	69176-07-28 17:46 G	26987284.13	26987284.24	26987284.35	0.2700	0.1148
Mercury	69189-07-31 14:24 G	26992034.98	26992035.10	26992035.22	0.2695	0.0345
Mercury	69192-01-29 14:24 G	26992946.99	26992947.10	26992947.21	0.2631	0.1529
Mercury	69202-08-03 10:19 G	26996785.83	26996785.93	26996786.03	0.2689	0.1470
Mercury	69205-01-31 13:27 G	26997697.93	26997698.06	26997698.20	0.2631	0.0196
Mercury	69209-07-27 01:55 G	26999335.51	26999335.58	26999335.64	0.2704	0.2291
Mercury	69218-02-03 13:12 G	27002448.93	27002449.05	27002449.17	0.2632	0.1384
Mercury	69222-07-29 23:03 G	27004086.34	27004086.46	27004086.58	0.2698	0.0745
Mercury	69235-08-01 19:27 G	27008837.20	27008837.31	27008837.43	0.2694	0.0453
Mercury	69238-01-29 19:55 G	27009749.22	27009749.33	27009749.45	0.2631	0.1403
Mercury	69248-08-03 15:22 G	27013588.05	27013588.14	27013588.23	0.2688	0.1802
Mercury	69251-02-01 18:58 G	27014500.15	27014500.29	27014500.43	0.2631	0.0199
Mercury	69255-07-28 07:12 G	27016137.71	27016137.80	27016137.88	0.2703	0.1945

Mercury	69264-02-04 18:58 G	27019251.18	27019251.29	27019251.40	0.2634	0.1686
Mercury	69268-07-30 04:19 G	27020888.56	27020888.68	27020888.80	0.2698	0.0610
Mercury	69271-01-28 02:10 G	27021800.57	27021800.59	27021800.62	0.2632	0.2578
Venus	69277-01-27 02:10 G	27023991.49	27023991.59	27023991.69	0.2640	0.1950
Mercury	69281-08-02 00:43 G	27025639.41	27025639.53	27025639.64	0.2692	0.0825
Mercury	69284-01-31 01:27 G	27026551.43	27026551.56	27026551.69	0.2631	0.0967
Venus	69285-01-24 21:07 G	27026911.23	27026911.38	27026911.53	0.2635	0.0650
Mercury	69294-08-04 20:24 G	27030390.27	27030390.35	27030390.43	0.2687	0.1906
Mercury	69297-02-02 00:43 G	27031302.39	27031302.53	27031302.67	0.2631	0.0352
Mercury	69301-07-29 12:29 G	27032939.93	27032940.02	27032940.12	0.2702	0.1683
Mercury	69310-02-06 00:29 G	27036053.43	27036053.52	27036053.61	0.2635	0.2037
Mercury	69314-08-01 09:36 G	27037690.78	27037690.90	27037691.02	0.2698	0.0267
Mercury	69317-01-29 07:55 G	27038602.75	27038602.83	27038602.90	0.2632	0.2177
Mercury	69327-08-04 05:46 G	27042441.62	27042441.74	27042441.85	0.2691	0.0921
Mercury	69330-02-01 06:58 G	27043353.65	27043353.79	27043353.92	0.2630	0.0861
Mercury	69340-08-06 01:27 G	27047192.50	27047192.56	27047192.62	0.2687	0.2267
Mercury	69343-02-04 06:29 G	27048104.63	27048104.77	27048104.90	0.2631	0.0815
Mercury	69347-07-30 18:00 G	27049742.15	27049742.25	27049742.35	0.2701	0.1447
Mercury	69356-02-07 06:15 G	27052855.69	27052855.76	27052855.83	0.2636	0.2216
Mercury	69360-08-01 14:39 G	27054492.99	27054493.11	27054493.23	0.2697	0.0105
Mercury	69363-01-30 13:27 G	27055404.97	27055405.06	27055405.14	0.2632	0.1995
Mercury	69373-08-04 10:48 G	27059243.85	27059243.95	27059244.06	0.2690	0.1277
Mercury	69376-02-02 12:29 G	27060155.88	27060156.02	27060156.15	0.2630	0.0454
Mercury	69380-07-28 01:41 G	27061793.56	27061793.57	27061793.59	0.2704	0.2671
Mercury	69386-08-07 06:15 G	27063994.71	27063994.76	27063994.82	0.2687	0.2350
Mercury	69389-02-04 12:00 G	27064906.87	27064907.00	27064907.13	0.2632	0.0930
Mercury	69393-07-30 23:17 G	27066544.36	27066544.47	27066544.58	0.2701	0.1106
Venus	69406-07-28 16:48 G	27071289.08	27071289.20	27071289.32	0.2691	0.1895
Mercury	69406-08-03 19:55 G	27071295.21	27071295.33	27071295.45	0.2695	0.0191
Mercury	69409-01-31 18:43 G	27072207.18	27072207.28	27072207.39	0.2631	0.1682

Venus	69414-07-26 01:27 G	27074208.52	27074208.56	27074208.60	0.2694	0.2592
Mercury	69419-08-06 16:05 G	27076046.06	27076046.17	27076046.27	0.2690	0.1426
Mercury	69422-02-03 18:00 G	27076958.11	27076958.25	27076958.39	0.2630	0.0271
Mercury	69426-07-30 07:12 G	27078595.73	27078595.80	27078595.87	0.2703	0.2248
Mercury	69432-08-08 11:17 G	27080796.97	27080796.97	27080796.97	0.2687	0.2684
Mercury	69435-02-06 17:31 G	27081709.11	27081709.23	27081709.34	0.2633	0.1362
Mercury	69439-08-02 04:19 G	27083346.57	27083346.68	27083346.80	0.2701	0.0961
Mercury	69452-08-04 00:58 G	27088097.43	27088097.54	27088097.66	0.2693	0.0487
Mercury	69455-02-02 00:15 G	27089009.39	27089009.51	27089009.63	0.2630	0.1391
Mercury	69465-08-06 20:53 G	27092848.28	27092848.37	27092848.47	0.2689	0.1711
Mercury	69468-02-04 23:31 G	27093760.34	27093760.48	27093760.62	0.2630	0.0119
Mercury	69472-07-30 12:43 G	27095397.95	27095398.03	27095398.10	0.2703	0.2115
Mercury	69481-02-06 23:03 G	27098511.34	27098511.46	27098511.57	0.2634	0.1517
Mercury	69485-08-02 09:36 G	27100148.79	27100148.90	27100149.02	0.2699	0.0573
Mercury	69488-01-31 06:43 G	27101060.74	27101060.78	27101060.82	0.2633	0.2517
Mercury	69498-08-05 06:15 G	27104899.64	27104899.76	27104899.88	0.2693	0.0639
Mercury	69501-02-03 05:46 G	27105811.62	27105811.74	27105811.86	0.2630	0.1199
Mercury	69511-08-09 01:55 G	27109650.50	27109650.58	27109650.66	0.2688	0.1918
Mercury	69514-02-06 05:03 G	27110562.57	27110562.71	27110562.85	0.2631	0.0343
Mercury	69518-08-01 17:46 G	27112200.15	27112200.24	27112200.34	0.2703	0.1713
Venus	69520-01-31 00:43 G	27112747.46	27112747.53	27112747.59	0.2628	0.2401
Mercury	69527-02-09 04:48 G	27115313.60	27115313.70	27115313.79	0.2634	0.1925
Venus	69528-01-28 14:10 G	27115666.95	27115667.09	27115667.22	0.2630	0.1414
Mercury	69531-08-04 14:53 G	27116951.01	27116951.12	27116951.24	0.2697	0.0463
Mercury	69534-02-01 12:15 G	27117862.96	27117863.01	27117863.06	0.2632	0.2400
Mercury	69544-08-06 11:17 G	27121701.86	27121701.97	27121702.08	0.2692	0.0992
Mercury	69547-02-04 11:31 G	27122613.84	27122613.98	27122614.11	0.2630	0.0794
Mercury	69557-08-09 06:58 G	27126452.71	27126452.79	27126452.86	0.2687	0.2092
Mercury	69560-02-07 10:34 G	27127364.80	27127364.94	27127365.07	0.2631	0.0571
Mercury	69564-08-01 23:17 G	27129002.37	27129002.47	27129002.56	0.2703	0.1572

Mercury	69573-02-09 10:19 G	27132115.85	27132115.93	27132116.01	0.2634	0.2156
Mercury	69577-08-04 20:10 G	27133753.22	27133753.34	27133753.46	0.2696	0.0055
Mercury	69580-02-02 17:46 G	27134665.15	27134665.24	27134665.33	0.2631	0.1963
Mercury	69590-08-07 16:19 G	27138504.07	27138504.18	27138504.29	0.2692	0.1095
Mercury	69593-02-04 17:03 G	27139416.07	27139416.21	27139416.34	0.2630	0.0655
Mercury	69597-07-31 07:12 G	27141053.78	27141053.80	27141053.81	0.2705	0.2675
Mercury	69603-08-10 12:00 G	27143254.95	27143255.00	27143255.05	0.2687	0.2414
Mercury	69606-02-07 16:05 G	27144167.04	27144167.17	27144167.30	0.2631	0.0954
Mercury	69610-08-03 04:34 G	27145804.58	27145804.69	27145804.80	0.2701	0.1215
Mercury	69619-02-10 16:05 G	27148918.13	27148918.17	27148918.22	0.2636	0.2478
Mercury	69623-08-06 01:27 G	27150555.44	27150555.56	27150555.68	0.2696	0.0066
Mercury	69626-02-02 23:17 G	27151467.38	27151467.47	27151467.57	0.2630	0.1837
Mercury	69636-08-07 21:22 G	27155306.29	27155306.39	27155306.49	0.2690	0.1457
Mercury	69639-02-05 22:19 G	27156218.29	27156218.43	27156218.57	0.2630	0.0239
Mercury	69643-08-01 12:29 G	27157855.97	27157856.02	27157856.07	0.2705	0.2448
Venus	69649-07-29 13:12 G	27160044.91	27160045.05	27160045.20	0.2705	0.0936
Mercury	69649-08-10 17:03 G	27160057.17	27160057.21	27160057.25	0.2687	0.2528
Mercury	69652-02-08 21:51 G	27160969.28	27160969.41	27160969.53	0.2631	0.1122
Mercury	69656-08-03 09:51 G	27162606.80	27162606.91	27162607.03	0.2700	0.0967
Venus	69657-07-27 06:58 G	27162964.68	27162964.79	27162964.91	0.2706	0.1714
Mercury	69669-08-06 06:29 G	27167357.65	27167357.77	27167357.89	0.2695	0.0433
Mercury	69672-02-04 04:48 G	27168269.59	27168269.70	27168269.82	0.2630	0.1424
Mercury	69682-08-09 02:24 G	27172108.50	27172108.60	27172108.70	0.2689	0.1549
Mercury	69685-02-06 03:51 G	27173020.52	27173020.66	27173020.80	0.2630	0.0126
Mercury	69689-08-01 17:46 G	27174658.17	27174658.24	27174658.32	0.2704	0.2101
Mercury	69698-02-09 03:22 G	27177771.53	27177771.64	27177771.75	0.2632	0.1574
Mercury	69702-08-05 15:07 G	27179409.02	27179409.13	27179409.25	0.2699	0.0732
Mercury	69715-08-08 11:46 G	27184159.87	27184159.99	27184160.10	0.2694	0.0594
Mercury	69718-02-05 10:19 G	27185071.81	27185071.93	27185072.05	0.2630	0.1255
Mercury	69728-08-10 07:27 G	27188910.73	27188910.81	27188910.90	0.2688	0.1919

Mercury	69731-02-08 09:22 G	27189822.75	27189822.89	27189823.03	0.2630	0.0309
Mercury	69735-08-03 23:17 G	27191460.39	27191460.47	27191460.55	0.2703	0.1927
Mercury	69744-02-11 08:53 G	27194573.77	27194573.87	27194573.98	0.2634	0.1694
Mercury	69748-08-05 20:24 G	27196211.23	27196211.35	27196211.47	0.2699	0.0416
Mercury	69751-02-03 16:48 G	27197123.14	27197123.20	27197123.26	0.2631	0.2347
Mercury	69761-08-08 16:48 G	27200962.08	27200962.20	27200962.31	0.2692	0.0851
Venus	69763-02-01 04:19 G	27201503.60	27201503.68	27201503.76	0.2640	0.2234
Mercury	69764-02-06 15:51 G	27201874.03	27201874.16	27201874.28	0.2630	0.0952
Venus	69771-01-30 01:12 G	27204423.40	27204423.55	27204423.70	0.2639	0.0106
Mercury	69774-08-11 12:43 G	27205712.95	27205713.03	27205713.10	0.2688	0.2046
Mercury	69777-02-08 14:53 G	27206624.99	27206625.12	27206625.26	0.2630	0.0478
Mercury	69781-08-04 04:34 G	27208262.59	27208262.69	27208262.79	0.2702	0.1511
Mercury	69790-02-11 14:39 G	27211376.03	27211376.11	27211376.19	0.2635	0.2149
Mercury	69794-08-07 01:41 G	27213013.45	27213013.57	27213013.69	0.2698	0.0268
Mercury	69797-02-03 22:19 G	27213925.36	27213925.43	27213925.51	0.2632	0.2161
Mercury	69807-08-10 21:51 G	27217764.30	27217764.41	27217764.52	0.2691	0.1122
Mercury	69810-02-07 21:07 G	27218676.25	27218676.38	27218676.52	0.2629	0.0664
Mercury	69820-08-12 17:31 G	27222515.17	27222515.23	27222515.29	0.2688	0.2324
Mercury	69823-02-10 20:24 G	27223427.22	27223427.35	27223427.49	0.2631	0.0844
Mercury	69827-08-06 10:05 G	27225064.81	27225064.92	27225065.02	0.2702	0.1400
Mercury	69836-02-13 20:10 G	27228178.28	27228178.34	27228178.41	0.2636	0.2294
Mercury	69840-08-08 06:43 G	27229815.66	27229815.78	27229815.90	0.2696	0.0122
Mercury	69843-02-06 03:51 G	27230727.56	27230727.66	27230727.76	0.2631	0.1779
Mercury	69853-08-11 03:07 G	27234566.52	27234566.63	27234566.73	0.2691	0.1301
Mercury	69856-02-09 02:39 G	27235478.48	27235478.61	27235478.75	0.2629	0.0454
Mercury	69860-08-03 17:46 G	27237116.20	27237116.24	27237116.28	0.2705	0.2540
Mercury	69866-08-13 22:34 G	27239317.40	27239317.44	27239317.47	0.2688	0.2533
Mercury	69869-02-11 01:55 G	27240229.46	27240229.58	27240229.71	0.2632	0.1093
Mercury	69873-08-06 15:07 G	27241867.02	27241867.13	27241867.24	0.2702	0.0987
Mercury	69886-08-09 12:00 G	27246617.88	27246618.00	27246618.12	0.2694	0.0225

Mercury	69889-02-06 09:22 G	27247529.78	27247529.89	27247529.99	0.2630	0.1657
Venus	69892-07-31 20:24 G	27248801.23	27248801.35	27248801.47	0.2696	0.1859
Mercury	69899-08-12 08:10 G	27251368.74	27251368.84	27251368.93	0.2690	0.1621
Venus	69900-07-30 05:31 G	27251720.66	27251720.73	27251720.80	0.2694	0.2447
Mercury	69902-02-10 08:24 G	27252280.71	27252280.85	27252280.99	0.2629	0.0058
Mercury	69906-08-05 23:17 G	27253918.40	27253918.47	27253918.54	0.2704	0.2207
Mercury	69915-02-13 07:27 G	27257031.69	27257031.81	27257031.93	0.2633	0.1333
Mercury	69919-08-08 20:24 G	27258669.24	27258669.35	27258669.47	0.2701	0.0856
Mercury	69932-08-10 17:03 G	27263420.10	27263420.21	27263420.33	0.2694	0.0638
Mercury	69935-02-08 14:39 G	27264331.99	27264332.11	27264332.24	0.2629	0.1224
Mercury	69945-08-13 13:12 G	27268170.95	27268171.05	27268171.14	0.2689	0.1731
Mercury	69948-02-11 13:55 G	27269082.94	27269083.08	27269083.22	0.2630	0.0104
Mercury	69952-08-06 04:34 G	27270720.61	27270720.69	27270720.77	0.2704	0.1950
Mercury	69961-02-13 13:12 G	27273833.95	27273834.05	27273834.16	0.2633	0.1722
Mercury	69965-08-09 01:41 G	27275471.45	27275471.57	27275471.69	0.2699	0.0504
Mercury	69968-02-06 21:22 G	27276383.34	27276383.39	27276383.44	0.2632	0.2416
Mercury	69978-08-11 22:19 G	27280222.32	27280222.43	27280222.55	0.2694	0.0729
Mercury	69981-02-08 20:24 G	27281134.23	27281134.35	27281134.47	0.2629	0.1100
Mercury	69991-08-14 18:00 G	27284973.18	27284973.25	27284973.33	0.2688	0.2085
Mercury	69994-02-11 19:12 G	27285885.17	27285885.30	27285885.44	0.2630	0.0506
Mercury	69998-08-07 09:51 G	27287522.82	27287522.91	27287523.00	0.2704	0.1704

71ST MILLENNIUM CE

This is a list of transits visible from Moon in the 71st millennium CE.

PLANET	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
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TRANSIT

TIME

Mercury	70007-02-14 18:58 G	27290636.20	27290636.29	27290636.38	0.2633	0.1909
Mercury	70011-08-10 06:58 G	27292273.67	27292273.79	27292273.92	0.2697	0.0291
Venus	70014-01-31 23:03 G	27293179.30	27293179.46	27293179.62	0.2626	0.0763
Mercury	70014-02-07 02:53 G	27293185.55	27293185.62	27293185.69	0.2630	0.2212
Mercury	70024-08-12 03:22 G	27297024.53	27297024.64	27297024.75	0.2693	0.1093
Mercury	70027-02-10 01:55 G	27297936.44	27297936.58	27297936.71	0.2629	0.0688
Mercury	70037-08-14 23:03 G	27301775.39	27301775.46	27301775.53	0.2688	0.2175
Mercury	70040-02-13 00:43 G	27302687.40	27302687.53	27302687.67	0.2630	0.0626
Mercury	70044-08-07 15:07 G	27304325.03	27304325.13	27304325.24	0.2703	0.1370
Mercury	70053-02-15 00:43 G	27307438.47	27307438.53	27307438.59	0.2635	0.2355
Mercury	70057-08-10 12:15 G	27309075.89	27309076.01	27309076.13	0.2697	0.0064
Mercury	70060-02-08 08:24 G	27309987.76	27309987.85	27309987.94	0.2630	0.1928
Mercury	70070-08-13 08:24 G	27313826.75	27313826.85	27313826.96	0.2691	0.1238
Mercury	70073-02-10 07:12 G	27314738.67	27314738.80	27314738.94	0.2629	0.0526
Mercury	70077-08-05 23:03 G	27316376.41	27316376.46	27316376.50	0.2706	0.2530
Mercury	70083-08-16 04:05 G	27318577.64	27318577.67	27318577.71	0.2688	0.2545
Mercury	70086-02-13 06:29 G	27319489.64	27319489.77	27319489.89	0.2630	0.1075
Mercury	70090-08-08 20:39 G	27321127.25	27321127.36	27321127.47	0.2701	0.1201
Mercury	70099-02-16 06:15 G	27324240.72	27324240.76	27324240.80	0.2637	0.2483
Mercury	70103-08-12 17:31 G	27325878.11	27325878.23	27325878.35	0.2697	0.0265
Mercury	70106-02-09 13:55 G	27326789.97	27326790.08	27326790.19	0.2630	0.1623
Mercury	70116-08-14 13:27 G	27330628.96	27330629.06	27330629.16	0.2690	0.1501
Mercury	70119-02-12 12:29 G	27331540.89	27331541.02	27331541.16	0.2629	0.0235
Mercury	70123-08-08 04:19 G	27333178.63	27333178.68	27333178.73	0.2705	0.2408
Mercury	70129-08-17 09:07 G	27335379.87	27335379.88	27335379.90	0.2688	0.2663
Mercury	70132-02-15 12:00 G	27336291.88	27336292.00	27336292.13	0.2631	0.1228
Venus	70135-08-03 09:22 G	27337556.75	27337556.89	27337557.04	0.2701	0.1093
Mercury	70136-08-10 01:55 G	27337929.46	27337929.58	27337929.69	0.2700	0.0790

Venus	70143-08-01 01:27 G	27340476.49	27340476.56	27340476.63	0.2706	0.2370
Mercury	70149-08-12 22:34 G	27342680.32	27342680.44	27342680.56	0.2695	0.0437
Mercury	70152-02-10 19:27 G	27343592.20	27343592.31	27343592.42	0.2630	0.1411
Mercury	70162-08-15 18:43 G	27347431.18	27347431.28	27347431.37	0.2689	0.1751
Mercury	70165-02-12 18:15 G	27348343.12	27348343.26	27348343.40	0.2629	0.0087
Mercury	70169-08-08 09:51 G	27349980.82	27349980.91	27349980.99	0.2704	0.1988
Mercury	70178-02-15 17:31 G	27353094.12	27353094.23	27353094.34	0.2633	0.1601
Mercury	70182-08-11 07:12 G	27354731.68	27354731.80	27354731.92	0.2700	0.0689
Mercury	70185-02-08 02:10 G	27355643.58	27355643.59	27355643.60	0.2631	0.2614
Mercury	70195-08-14 03:36 G	27359482.54	27359482.65	27359482.77	0.2693	0.0787
Mercury	70198-02-11 00:43 G	27360394.41	27360394.53	27360394.66	0.2629	0.1051
Mercury	70208-08-16 23:46 G	27364233.41	27364233.49	27364233.57	0.2689	0.1944
Mercury	70211-02-14 23:46 G	27365145.35	27365145.49	27365145.63	0.2629	0.0320
Mercury	70215-08-10 15:07 G	27366783.04	27366783.13	27366783.22	0.2703	0.1803
Mercury	70224-02-17 23:03 G	27369896.37	27369896.46	27369896.56	0.2634	0.1858
Mercury	70228-08-12 12:29 G	27371533.89	27371534.02	27371534.14	0.2700	0.0294
Mercury	70231-02-10 07:27 G	27372445.74	27372445.81	27372445.89	0.2631	0.2174
Mercury	70241-08-15 08:53 G	27376284.75	27376284.87	27376284.98	0.2692	0.0886
Mercury	70244-02-13 06:15 G	27377196.63	27377196.76	27377196.89	0.2628	0.0922
Mercury	70254-08-18 04:48 G	27381035.63	27381035.70	27381035.76	0.2689	0.2241
Venus	70257-02-03 03:36 G	27381935.50	27381935.65	27381935.80	0.2638	0.0118
Mercury	70257-02-15 05:17 G	27381947.59	27381947.72	27381947.86	0.2630	0.0683
Mercury	70261-08-10 20:39 G	27383585.26	27383585.36	27383585.46	0.2703	0.1460
Mercury	70270-02-18 04:34 G	27386698.62	27386698.69	27386698.78	0.2635	0.2130
Mercury	70274-08-13 17:31 G	27388336.11	27388336.23	27388336.35	0.2698	0.0168
Mercury	70277-02-10 12:58 G	27389247.96	27389248.04	27389248.13	0.2631	0.2062
Mercury	70287-08-16 13:55 G	27393086.98	27393087.08	27393087.19	0.2692	0.1286
Mercury	70290-02-13 11:46 G	27393998.85	27393998.99	27393999.12	0.2628	0.0483
Mercury	70300-08-19 09:36 G	27397837.85	27397837.90	27397837.96	0.2689	0.2350
Mercury	70303-02-17 10:48 G	27398749.82	27398749.95	27398750.08	0.2631	0.0828

Mercury	70307-08-13 01:55 G	27400387.47	27400387.58	27400387.68	0.2703	0.1239
Mercury	70316-02-20 10:34 G	27403500.90	27403500.94	27403500.98	0.2635	0.2497
Mercury	70320-08-14 22:48 G	27405138.33	27405138.45	27405138.57	0.2696	0.0196
Mercury	70323-02-12 18:29 G	27406050.16	27406050.27	27406050.37	0.2629	0.1679
Mercury	70333-08-17 19:12 G	27409889.19	27409889.30	27409889.40	0.2692	0.1379
Mercury	70336-02-15 17:17 G	27410801.09	27410801.22	27410801.36	0.2628	0.0370
Mercury	70340-08-10 09:36 G	27412438.84	27412438.90	27412438.96	0.2705	0.2349
Mercury	70349-02-17 16:05 G	27415552.05	27415552.17	27415552.30	0.2632	0.1261
Mercury	70353-08-13 07:12 G	27417189.68	27417189.80	27417189.91	0.2702	0.0974
Mercury	70366-08-16 04:05 G	27421940.55	27421940.67	27421940.79	0.2695	0.0392
Mercury	70369-02-12 23:46 G	27422852.38	27422852.49	27422852.61	0.2628	0.1491
Venus	70378-08-05 20:24 G	27426313.22	27426313.35	27426313.47	0.2703	0.1514
Mercury	70379-08-19 00:00 G	27426691.41	27426691.50	27426691.60	0.2691	0.1730
Mercury	70382-02-15 22:48 G	27427603.31	27427603.45	27427603.59	0.2629	0.0067
Venus	70386-08-03 08:53 G	27429232.75	27429232.87	27429233.00	0.2698	0.1655
Mercury	70386-08-11 15:07 G	27429241.06	27429241.13	27429241.20	0.2705	0.2206
Mercury	70395-02-18 21:51 G	27432354.29	27432354.41	27432354.53	0.2632	0.1378
Mercury	70399-08-14 12:29 G	27433991.90	27433992.02	27433992.14	0.2700	0.0650
Mercury	70402-02-11 06:29 G	27434903.75	27434903.77	27434903.80	0.2632	0.2578
Mercury	70412-08-16 09:07 G	27438742.77	27438742.88	27438743.00	0.2695	0.0676
Mercury	70415-02-14 05:31 G	27439654.60	27439654.73	27439654.85	0.2628	0.1177
Mercury	70425-08-19 05:03 G	27443493.63	27443493.71	27443493.80	0.2689	0.1867
Mercury	70428-02-17 04:05 G	27444405.53	27444405.67	27444405.81	0.2629	0.0206
Mercury	70432-08-11 20:24 G	27446043.26	27446043.35	27446043.44	0.2705	0.1790
Mercury	70441-02-19 03:22 G	27449156.55	27449156.64	27449156.74	0.2632	0.1847
Mercury	70445-08-14 17:46 G	27450794.12	27450794.24	27450794.36	0.2698	0.0491
Mercury	70448-02-12 12:00 G	27451705.95	27451706.00	27451706.06	0.2630	0.2401
Mercury	70458-08-17 14:24 G	27455544.98	27455545.10	27455545.21	0.2694	0.0916
Mercury	70461-02-14 10:48 G	27456456.83	27456456.95	27456457.08	0.2628	0.0904
Mercury	70471-08-20 10:05 G	27460295.85	27460295.92	27460296.00	0.2689	0.2149

Mercury	70474-02-17 09:36 G	27461207.76	27461207.90	27461208.03	0.2630	0.0535
Mercury	70478-08-13 01:41 G	27462845.48	27462845.57	27462845.67	0.2704	0.1664
Mercury	70487-02-20 09:07 G	27465958.79	27465958.88	27465958.97	0.2633	0.1996
Mercury	70491-08-15 23:03 G	27467596.34	27467596.46	27467596.58	0.2698	0.0104
Mercury	70494-02-12 17:31 G	27468508.15	27468508.23	27468508.32	0.2629	0.1984
Venus	70500-02-05 09:07 G	27470691.72	27470691.88	27470692.05	0.2626	0.0602
Mercury	70504-08-18 19:27 G	27472347.20	27472347.31	27472347.42	0.2692	0.1096
Mercury	70507-02-16 16:19 G	27473259.05	27473259.18	27473259.31	0.2629	0.0682
Mercury	70517-08-21 15:22 G	27477098.08	27477098.14	27477098.19	0.2688	0.2370
Mercury	70520-02-19 15:07 G	27478010.00	27478010.13	27478010.26	0.2630	0.0803
Mercury	70524-08-14 07:12 G	27479647.69	27479647.80	27479647.90	0.2702	0.1246
Mercury	70533-02-21 14:39 G	27482761.06	27482761.11	27482761.17	0.2635	0.2388
Mercury	70537-08-17 04:19 G	27484398.55	27484398.68	27484398.80	0.2698	0.0106
Mercury	70540-02-14 23:17 G	27485310.37	27485310.47	27485310.56	0.2629	0.1874
Mercury	70550-08-20 00:29 G	27489149.42	27489149.52	27489149.62	0.2691	0.1432
Mercury	70553-02-16 21:36 G	27490061.26	27490061.40	27490061.54	0.2628	0.0324
Mercury	70557-08-12 14:39 G	27491699.07	27491699.11	27491699.16	0.2706	0.2494
Mercury	70563-08-22 20:24 G	27493900.32	27493900.35	27493900.38	0.2689	0.2574
Mercury	70566-02-19 20:53 G	27494812.24	27494812.37	27494812.49	0.2630	0.1080
Mercury	70570-08-15 12:29 G	27496449.91	27496450.02	27496450.13	0.2701	0.1084
Mercury	70583-08-18 09:22 G	27501200.77	27501200.89	27501201.01	0.2697	0.0412
Mercury	70586-02-15 04:34 G	27502112.58	27502112.69	27502112.80	0.2629	0.1442
Mercury	70596-08-20 05:31 G	27505951.64	27505951.73	27505951.83	0.2690	0.1543
Mercury	70599-02-18 03:07 G	27506863.49	27506863.63	27506863.77	0.2628	0.0193
Mercury	70603-08-14 20:10 G	27508501.27	27508501.34	27508501.41	0.2705	0.2230
Mercury	70612-02-22 02:24 G	27511614.48	27511614.60	27511614.71	0.2632	0.1430
Mercury	70616-08-16 17:46 G	27513252.12	27513252.24	27513252.36	0.2701	0.0727
Mercury	70619-02-14 11:17 G	27514163.97	27514163.97	27514163.98	0.2630	0.2624
Venus	70621-08-07 09:07 G	27515068.73	27515068.88	27515069.03	0.2697	0.1123
Mercury	70629-08-19 14:39 G	27518002.99	27518003.11	27518003.23	0.2695	0.0525

Mercury	70632-02-17 09:51 G	27518914.80	27518914.91	27518915.03	0.2629	0.1337
Mercury	70642-08-22 10:48 G	27522753.86	27522753.95	27522754.03	0.2690	0.1927
Mercury	70645-02-19 08:39 G	27523665.72	27523665.86	27523666.00	0.2628	0.0253
Mercury	70649-08-15 01:41 G	27525303.49	27525303.57	27525303.65	0.2704	0.1979
Mercury	70658-02-22 07:55 G	27528416.72	27528416.83	27528416.94	0.2633	0.1590
Mercury	70662-08-17 23:03 G	27530054.34	27530054.46	27530054.58	0.2701	0.0535
Mercury	70665-02-14 16:48 G	27530966.15	27530966.20	27530966.25	0.2631	0.2426
Mercury	70675-08-20 19:41 G	27534805.21	27534805.32	27534805.44	0.2693	0.0879
Mercury	70678-02-17 15:22 G	27535717.01	27535717.14	27535717.26	0.2628	0.0953
Mercury	70688-08-22 15:51 G	27539556.08	27539556.16	27539556.24	0.2690	0.2017
Mercury	70691-02-20 14:10 G	27540467.96	27540468.09	27540468.23	0.2629	0.0378
Mercury	70695-08-16 06:58 G	27542105.70	27542105.79	27542105.89	0.2704	0.1610
Mercury	70704-02-24 13:27 G	27545218.97	27545219.06	27545219.14	0.2633	0.2037
Mercury	70708-08-19 04:19 G	27546856.56	27546856.68	27546856.80	0.2699	0.0260
Mercury	70711-02-16 22:19 G	27547768.35	27547768.43	27547768.51	0.2630	0.2130
Mercury	70721-08-22 00:58 G	27551607.43	27551607.54	27551607.65	0.2693	0.1043
Mercury	70724-02-19 20:39 G	27552519.23	27552519.36	27552519.50	0.2627	0.0777
Mercury	70734-08-24 20:39 G	27556358.31	27556358.36	27556358.42	0.2689	0.2353
Mercury	70737-02-21 19:41 G	27557270.19	27557270.32	27557270.45	0.2630	0.0784
Mercury	70741-08-17 12:15 G	27558907.91	27558908.01	27558908.12	0.2704	0.1467
Venus	70743-02-08 05:31 G	27559447.57	27559447.73	27559447.88	0.2634	0.0176
Mercury	70750-02-24 19:12 G	27562021.22	27562021.30	27562021.37	0.2634	0.2162
Venus	70751-02-06 01:41 G	27562367.56	27562367.57	27562367.58	0.2636	0.2621
Mercury	70754-08-20 09:36 G	27563658.78	27563658.90	27563659.02	0.2697	0.0067
Mercury	70757-02-17 03:36 G	27564570.56	27564570.65	27564570.75	0.2629	0.1848
Mercury	70767-08-23 06:00 G	27568409.65	27568409.75	27568409.86	0.2693	0.1341
Mercury	70770-02-20 02:24 G	27569321.46	27569321.60	27569321.73	0.2628	0.0435
Mercury	70774-08-15 19:55 G	27570959.32	27570959.33	27570959.35	0.2706	0.2673
Mercury	70780-08-25 01:41 G	27573160.53	27573160.57	27573160.61	0.2689	0.2487
Mercury	70783-02-23 00:58 G	27574072.42	27574072.54	27574072.67	0.2631	0.0944

Mercury	70787-08-18 17:31 G	27575710.12	27575710.23	27575710.35	0.2703	0.1062
Mercury	70800-08-20 14:53 G	27580460.99	27580461.12	27580461.24	0.2696	0.0223
Mercury	70803-02-18 09:07 G	27581372.77	27581372.88	27581372.98	0.2628	0.1667
Mercury	70813-08-23 11:03 G	27585211.86	27585211.96	27585212.06	0.2692	0.1559
Mercury	70816-02-21 07:41 G	27586123.69	27586123.82	27586123.96	0.2628	0.0191
Mercury	70820-08-16 01:27 G	27587761.49	27587761.56	27587761.62	0.2706	0.2257
Mercury	70829-02-23 06:29 G	27590874.66	27590874.77	27590874.89	0.2631	0.1306
Mercury	70833-08-18 23:03 G	27592512.34	27592512.46	27592512.57	0.2701	0.0935
Mercury	70846-08-21 19:55 G	27597263.21	27597263.33	27597263.45	0.2696	0.0590
Mercury	70849-02-18 14:39 G	27598174.99	27598175.11	27598175.23	0.2628	0.1258
Mercury	70859-08-24 16:05 G	27602014.08	27602014.17	27602014.26	0.2690	0.1739
Mercury	70862-02-21 13:12 G	27602925.91	27602926.05	27602926.19	0.2629	0.0044
Venus	70864-08-08 17:17 G	27603825.09	27603825.22	27603825.34	0.2708	0.1525
Mercury	70866-08-17 06:43 G	27604563.71	27604563.78	27604563.86	0.2706	0.2099
Venus	70872-08-06 08:53 G	27606744.74	27606744.87	27606745.01	0.2704	0.1371
Mercury	70875-02-24 12:15 G	27607676.90	27607677.01	27607677.12	0.2631	0.1556
Mercury	70879-08-20 04:19 G	27609314.56	27609314.68	27609314.80	0.2700	0.0515
Mercury	70882-02-16 21:22 G	27610226.34	27610226.39	27610226.45	0.2630	0.2398
Mercury	70892-08-22 01:12 G	27614065.43	27614065.55	27614065.66	0.2695	0.0696
Mercury	70895-02-19 20:10 G	27614977.22	27614977.34	27614977.46	0.2628	0.1137
Mercury	70905-08-25 21:07 G	27618816.30	27618816.38	27618816.46	0.2690	0.2069
Mercury	70908-02-23 18:29 G	27619728.14	27619728.27	27619728.41	0.2629	0.0420
Mercury	70912-08-18 12:15 G	27621365.91	27621366.01	27621366.10	0.2705	0.1740
Mercury	70921-02-25 18:00 G	27624479.15	27624479.25	27624479.34	0.2632	0.1857
Mercury	70925-08-21 09:36 G	27626116.78	27626116.90	27626117.03	0.2699	0.0391
Mercury	70928-02-19 02:53 G	27627028.56	27627028.62	27627028.69	0.2629	0.2273
Mercury	70938-08-24 06:15 G	27630867.65	27630867.76	27630867.87	0.2694	0.1079
Mercury	70941-02-21 01:27 G	27631779.43	27631779.56	27631779.69	0.2628	0.0722
Mercury	70951-08-27 02:24 G	27635618.53	27635618.60	27635618.66	0.2689	0.2189
Mercury	70954-02-24 00:15 G	27636530.37	27636530.51	27636530.64	0.2629	0.0560

Mercury	70958-08-19 17:31 G	27638168.13	27638168.23	27638168.34	0.2703	0.1480
Mercury	70967-02-26 23:31 G	27641281.40	27641281.48	27641281.55	0.2634	0.2205
Mercury	70971-08-22 14:53 G	27642919.00	27642919.12	27642919.24	0.2699	0.0009
Mercury	70974-02-19 08:24 G	27643830.76	27643830.85	27643830.95	0.2628	0.1877
Mercury	70984-08-24 11:17 G	27647669.86	27647669.97	27647670.08	0.2692	0.1177
Venus	70986-02-09 17:46 G	27648204.11	27648204.24	27648204.37	0.2630	0.1558
Mercury	70987-02-22 06:43 G	27648581.65	27648581.78	27648581.92	0.2628	0.0617
Mercury	70991-08-18 00:58 G	27650219.52	27650219.54	27650219.56	0.2707	0.2663
Venus	70994-02-07 08:39 G	27651123.76	27651123.86	27651123.95	0.2625	0.2150
Mercury	70997-08-27 07:27 G	27652420.77	27652420.81	27652420.84	0.2690	0.2559
Mercury	71000-02-25 05:46 G	27653332.61	27653332.74	27653332.86	0.2629	0.1002

72ND MILLENNIUM CE

This is a list of transits visible from Moon in the 72nd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	71004-08-20 23:03 G		27654970.35	27654970.46	27654970.57	0.2702	0.1233	
Mercury	71013-02-28 05:03 G		27658083.65	27658083.71	27658083.77	0.2635	0.2378	
Mercury	71017-08-23 20:10 G		27659721.21	27659721.34	27659721.46	0.2698	0.0178	
Mercury	71020-02-21 13:55 G		27660632.98	27660633.08	27660633.18	0.2629	0.1701	
Mercury	71030-08-26 16:34 G		27664472.09	27664472.19	27664472.29	0.2691	0.1546	
Mercury	71033-02-23 12:15 G		27665383.87	27665384.01	27665384.15	0.2627	0.0216	
Mercury	71037-08-19 06:29 G		27667021.72	27667021.77	27667021.82	0.2706	0.2488	
Mercury	71043-08-29 12:15 G		27669223.00	27669223.01	27669223.03	0.2690	0.2647	

Mercury	71046-02-26 11:17 G	27670134.84	27670134.97	27670135.09	0.2630	0.1119
Mercury	71050-08-22 04:19 G	27671772.56	27671772.68	27671772.80	0.2702	0.0887
Mercury	71063-08-25 01:12 G	27676523.43	27676523.55	27676523.67	0.2696	0.0438
Mercury	71066-02-21 19:12 G	27677435.19	27677435.30	27677435.42	0.2628	0.1403
Mercury	71076-08-26 21:36 G	27681274.31	27681274.40	27681274.50	0.2691	0.1688
Mercury	71079-02-24 17:46 G	27682186.10	27682186.24	27682186.38	0.2627	0.0048
Mercury	71083-08-20 12:00 G	27683823.92	27683824.00	27683824.08	0.2705	0.2057
Mercury	71092-02-27 16:34 G	27686937.08	27686937.19	27686937.30	0.2632	0.1542
Mercury	71096-08-22 09:36 G	27688574.78	27688574.90	27688575.02	0.2702	0.0729
Mercury	71099-02-20 02:24 G	27689486.58	27689486.60	27689486.62	0.2630	0.2586
Venus	71107-08-12 11:31 G	27692580.82	27692580.98	27692581.14	0.2696	0.0898
Mercury	71109-08-26 06:29 G	27693325.65	27693325.77	27693325.89	0.2694	0.0724
Mercury	71112-02-24 00:29 G	27694237.40	27694237.52	27694237.65	0.2627	0.1124
Mercury	71122-08-29 02:39 G	27698076.53	27698076.61	27698076.69	0.2691	0.1991
Mercury	71125-02-25 23:17 G	27698988.33	27698988.47	27698988.61	0.2628	0.0309
Mercury	71129-08-21 17:31 G	27700626.14	27700626.23	27700626.31	0.2705	0.1923
Mercury	71138-02-28 22:05 G	27703739.32	27703739.42	27703739.53	0.2633	0.1695
Mercury	71142-08-24 14:53 G	27705377.00	27705377.12	27705377.24	0.2700	0.0345
Mercury	71145-02-21 07:41 G	27706288.75	27706288.82	27706288.90	0.2630	0.2193
Mercury	71155-08-27 11:46 G	27710127.87	27710127.99	27710128.10	0.2694	0.0900
Mercury	71158-02-24 06:00 G	27711039.63	27711039.75	27711039.88	0.2627	0.0930
Mercury	71168-08-29 07:41 G	27714878.75	27714878.82	27714878.89	0.2690	0.2200
Mercury	71171-02-27 04:34 G	27715790.56	27715790.69	27715790.83	0.2629	0.0559
Mercury	71175-08-22 22:48 G	27717428.35	27717428.45	27717428.55	0.2705	0.1499
Mercury	71184-03-01 03:51 G	27720541.58	27720541.66	27720541.74	0.2633	0.2100
Mercury	71188-08-24 20:10 G	27722179.22	27722179.34	27722179.46	0.2698	0.0225
Mercury	71191-02-22 13:12 G	27723090.97	27723091.05	27723091.13	0.2629	0.2080
Mercury	71201-08-27 16:48 G	27726930.09	27726930.20	27726930.31	0.2694	0.1250
Mercury	71204-02-25 11:31 G	27727841.85	27727841.98	27727842.12	0.2627	0.0540
Mercury	71214-08-30 12:43 G	27731680.97	27731681.03	27731681.08	0.2690	0.2381

Mercury	71217-02-27 10:05 G	27732592.79	27732592.92	27732593.05	0.2630	0.0780
Mercury	71221-08-23 04:05 G	27734230.57	27734230.67	27734230.78	0.2704	0.1360
Venus	71229-02-11 10:19 G	27736959.77	27736959.93	27736960.09	0.2628	0.0454
Mercury	71230-03-02 09:36 G	27737343.83	27737343.90	27737343.96	0.2633	0.2330
Mercury	71234-08-26 01:27 G	27738981.44	27738981.56	27738981.68	0.2697	0.0198
Venus	71237-02-09 03:36 G	27739879.55	27739879.65	27739879.74	0.2632	0.2040
Mercury	71237-02-22 18:29 G	27739893.17	27739893.27	27739893.37	0.2627	0.1666
Mercury	71247-08-28 21:51 G	27743732.31	27743732.41	27743732.52	0.2693	0.1366
Mercury	71250-02-25 17:03 G	27744644.07	27744644.21	27744644.34	0.2627	0.0408
Mercury	71254-08-21 11:46 G	27746281.94	27746281.99	27746282.03	0.2707	0.2500
Mercury	71263-02-28 15:36 G	27749395.03	27749395.15	27749395.27	0.2630	0.1160
Mercury	71267-08-24 09:22 G	27751032.78	27751032.89	27751033.01	0.2703	0.0995
Mercury	71280-08-26 06:43 G	27755783.66	27755783.78	27755783.90	0.2697	0.0310
Mercury	71283-02-24 00:00 G	27756695.39	27756695.50	27756695.61	0.2627	0.1548
Mercury	71293-08-29 02:53 G	27760534.53	27760534.62	27760534.72	0.2692	0.1735
Mercury	71296-02-26 22:19 G	27761446.29	27761446.43	27761446.57	0.2628	0.0008
Mercury	71300-08-22 17:03 G	27763084.14	27763084.21	27763084.28	0.2707	0.2261
Mercury	71309-03-01 21:07 G	27766197.27	27766197.38	27766197.50	0.2630	0.1319
Mercury	71313-08-25 14:53 G	27767835.00	27767835.12	27767835.24	0.2701	0.0748
Mercury	71316-02-23 06:58 G	27768746.78	27768746.79	27768746.80	0.2629	0.2611
Mercury	71326-08-28 11:46 G	27772585.88	27772585.99	27772586.11	0.2697	0.0696
Mercury	71329-02-25 05:31 G	27773497.60	27773497.73	27773497.85	0.2627	0.1147
Mercury	71339-08-31 08:10 G	27777336.75	27777336.84	27777336.93	0.2691	0.1828
Mercury	71342-02-28 03:36 G	27778248.52	27778248.65	27778248.79	0.2628	0.0115
Mercury	71346-08-23 22:19 G	27779886.35	27779886.43	27779886.52	0.2706	0.1909
Venus	71350-08-13 12:29 G	27781336.89	27781337.02	27781337.14	0.2710	0.1484
Mercury	71355-03-03 02:53 G	27782999.52	27782999.62	27782999.72	0.2631	0.1763
Venus	71358-08-11 06:15 G	27784256.66	27784256.76	27784256.86	0.2708	0.1975
Mercury	71359-08-26 20:10 G	27784637.22	27784637.34	27784637.46	0.2700	0.0495
Mercury	71362-02-23 12:29 G	27785548.96	27785549.02	27785549.07	0.2628	0.2351

Mercury	71372-08-28 17:03 G	27789388.09	27789388.21	27789388.33	0.2695	0.0842
Mercury	71375-02-26 10:48 G	27790299.82	27790299.95	27790300.08	0.2627	0.0980
Mercury	71385-08-31 13:12 G	27794138.98	27794139.05	27794139.12	0.2690	0.2204
Mercury	71388-02-29 09:07 G	27795050.75	27795050.88	27795051.02	0.2628	0.0534
Mercury	71392-08-24 03:51 G	27796688.57	27796688.66	27796688.76	0.2705	0.1728
Mercury	71401-03-04 08:24 G	27799801.75	27799801.85	27799801.94	0.2633	0.1885
Mercury	71405-08-28 01:27 G	27801439.44	27801439.56	27801439.68	0.2700	0.0186
Mercury	71408-02-25 18:00 G	27802351.16	27802351.25	27802351.33	0.2628	0.2027
Mercury	71418-08-30 22:05 G	27806190.31	27806190.42	27806190.53	0.2693	0.1116
Mercury	71421-02-27 16:05 G	27807102.04	27807102.17	27807102.30	0.2627	0.0686
Mercury	71431-09-02 18:15 G	27810941.20	27810941.26	27810941.32	0.2690	0.2331
Mercury	71434-03-02 14:53 G	27811852.98	27811853.12	27811853.25	0.2628	0.0699
Mercury	71438-08-26 09:22 G	27813490.78	27813490.89	27813491.00	0.2704	0.1298
Mercury	71447-03-05 13:55 G	27816604.02	27816604.08	27816604.14	0.2634	0.2336
Mercury	71451-08-29 06:43 G	27818241.66	27818241.78	27818241.90	0.2699	0.0003
Mercury	71454-02-25 23:17 G	27819153.38	27819153.47	27819153.57	0.2628	0.1843
Mercury	71464-08-31 03:22 G	27822992.53	27822992.64	27822992.74	0.2692	0.1385
Mercury	71467-02-28 21:36 G	27823904.26	27823904.40	27823904.53	0.2627	0.0404
Mercury	71471-08-24 16:34 G	27825542.16	27825542.19	27825542.23	0.2707	0.2557
Venus	71472-02-14 22:48 G	27825716.32	27825716.45	27825716.57	0.2634	0.1599
Mercury	71477-09-02 23:17 G	27827743.45	27827743.47	27827743.49	0.2690	0.2624
Venus	71480-02-12 16:48 G	27828636.07	27828636.20	27828636.33	0.2629	0.1442
Mercury	71480-03-02 20:10 G	27828655.22	27828655.34	27828655.47	0.2629	0.1059
Mercury	71484-08-26 14:53 G	27830293.01	27830293.12	27830293.23	0.2703	0.1184
Mercury	71493-03-05 19:27 G	27833406.27	27833406.31	27833406.35	0.2635	0.2478
Mercury	71497-08-29 12:00 G	27835043.87	27835044.00	27835044.12	0.2697	0.0380
Mercury	71500-02-27 04:48 G	27835955.59	27835955.70	27835955.81	0.2628	0.1478
Mercury	71510-09-02 08:24 G	27839794.75	27839794.85	27839794.95	0.2692	0.1577
Mercury	71513-03-02 03:07 G	27840706.49	27840706.63	27840706.76	0.2626	0.0206
Mercury	71517-08-25 22:19 G	27842344.37	27842344.43	27842344.48	0.2706	0.2357

Mercury	71526-03-05 01:41 G	27845457.45	27845457.57	27845457.69	0.2631	0.1309
Mercury	71530-08-28 20:10 G	27847095.22	27847095.34	27847095.45	0.2703	0.0760
Mercury	71533-02-25 11:46 G	27848006.97	27848006.99	27848007.02	0.2630	0.2570
Mercury	71543-08-31 17:03 G	27851846.09	27851846.21	27851846.34	0.2696	0.0482
Mercury	71546-02-28 10:05 G	27852757.80	27852757.92	27852758.03	0.2627	0.1359
Mercury	71556-09-02 13:27 G	27856596.98	27856597.06	27856597.15	0.2692	0.1901
Mercury	71559-03-03 08:39 G	27857508.72	27857508.86	27857508.99	0.2627	0.0205
Mercury	71563-08-27 03:51 G	27859146.57	27859146.66	27859146.74	0.2706	0.2009
Mercury	71572-03-05 07:12 G	27862259.69	27862259.80	27862259.91	0.2632	0.1549
Mercury	71576-08-29 01:27 G	27863897.44	27863897.56	27863897.68	0.2702	0.0628
Mercury	71579-02-26 17:17 G	27864809.18	27864809.22	27864809.27	0.2629	0.2458
Mercury	71589-08-31 22:19 G	27868648.32	27868648.43	27868648.55	0.2695	0.0891
Mercury	71592-02-29 15:22 G	27869560.02	27869560.14	27869560.27	0.2626	0.0941
Venus	71593-08-15 15:51 G	27870093.01	27870093.16	27870093.31	0.2698	0.1165
Venus	71601-08-13 00:15 G	27873012.44	27873012.51	27873012.59	0.2698	0.2419
Mercury	71602-09-03 18:29 G	27873399.19	27873399.27	27873399.35	0.2692	0.2017
Mercury	71605-03-03 13:55 G	27874310.94	27874311.08	27874311.21	0.2628	0.0328
Mercury	71609-08-27 09:07 G	27875948.79	27875948.88	27875948.97	0.2706	0.1751
Mercury	71618-03-06 12:43 G	27879061.94	27879062.03	27879062.12	0.2632	0.1924
Mercury	71622-08-30 06:43 G	27880699.66	27880699.78	27880699.90	0.2700	0.0262
Mercury	71625-02-26 22:34 G	27881611.36	27881611.44	27881611.52	0.2628	0.2089
Mercury	71635-09-02 03:36 G	27885450.54	27885450.65	27885450.76	0.2695	0.0991
Mercury	71638-03-01 20:53 G	27886362.24	27886362.37	27886362.50	0.2626	0.0824
Mercury	71648-09-03 23:31 G	27890201.43	27890201.48	27890201.54	0.2691	0.2384
Mercury	71651-03-04 19:12 G	27891113.17	27891113.30	27891113.43	0.2629	0.0738
Mercury	71655-08-28 14:24 G	27892751.00	27892751.10	27892751.20	0.2705	0.1491
Mercury	71664-03-06 18:29 G	27895864.19	27895864.27	27895864.35	0.2632	0.2109
Mercury	71668-08-30 12:00 G	27897501.88	27897502.00	27897502.12	0.2698	0.0051
Mercury	71671-02-28 04:05 G	27898413.57	27898413.67	27898413.76	0.2627	0.1893
Mercury	71681-09-02 08:39 G	27902252.76	27902252.86	27902252.97	0.2694	0.1364

Mercury	71684-03-02 02:24 G	27903164.46	27903164.60	27903164.73	0.2627	0.0424
Mercury	71694-09-05 04:48 G	27907003.65	27907003.70	27907003.74	0.2690	0.2476
Mercury	71697-03-05 00:43 G	27907915.40	27907915.53	27907915.66	0.2629	0.0849
Mercury	71701-08-29 19:55 G	27909553.21	27909553.33	27909553.44	0.2704	0.1157
Mercury	71710-03-09 00:00 G	27912666.47	27912666.50	27912666.53	0.2634	0.2549
Mercury	71714-09-01 17:17 G	27914304.10	27914304.22	27914304.34	0.2698	0.0234
Venus	71715-02-16 18:29 G	27914472.14	27914472.27	27914472.40	0.2623	0.1633
Mercury	71717-03-01 09:36 G	27915215.79	27915215.90	27915216.00	0.2626	0.1609
Venus	71723-02-14 08:24 G	27917391.74	27917391.85	27917391.97	0.2627	0.1790
Mercury	71727-09-04 13:41 G	27919054.97	27919055.07	27919055.17	0.2693	0.1508
Mercury	71730-03-04 07:41 G	27919966.68	27919966.82	27919966.95	0.2627	0.0258
Mercury	71734-08-28 03:07 G	27921604.58	27921604.63	27921604.69	0.2708	0.2343
Mercury	71743-03-07 06:15 G	27924717.64	27924717.76	27924717.88	0.2629	0.1296
Mercury	71747-08-31 01:12 G	27926355.44	27926355.55	27926355.67	0.2702	0.0980
Mercury	71760-09-01 22:34 G	27931106.31	27931106.44	27931106.56	0.2698	0.0514
Mercury	71763-03-02 14:53 G	27932018.01	27932018.12	27932018.24	0.2627	0.1315
Mercury	71773-09-04 18:43 G	27935857.19	27935857.28	27935857.38	0.2692	0.1788
Mercury	71776-03-04 12:58 G	27936768.90	27936769.04	27936769.18	0.2627	0.0044
Mercury	71780-08-28 08:39 G	27938406.79	27938406.86	27938406.93	0.2707	0.2214
Mercury	71789-03-07 11:46 G	27941519.88	27941519.99	27941520.11	0.2630	0.1450
Mercury	71793-08-31 06:43 G	27943157.65	27943157.78	27943157.90	0.2701	0.0566
Mercury	71796-02-28 22:05 G	27944069.36	27944069.42	27944069.47	0.2628	0.2375
Mercury	71806-09-04 03:36 G	27947908.53	27947908.65	27947908.77	0.2697	0.0700
Mercury	71809-03-03 20:24 G	27948820.23	27948820.35	27948820.47	0.2627	0.1110
Mercury	71819-09-07 00:00 G	27952659.42	27952659.50	27952659.58	0.2691	0.2034
Mercury	71822-03-06 18:29 G	27953571.13	27953571.27	27953571.40	0.2627	0.0327
Mercury	71826-08-30 14:10 G	27955209.00	27955209.09	27955209.18	0.2706	0.1779
Mercury	71835-03-09 17:17 G	27958322.13	27958322.22	27958322.32	0.2632	0.1825
Venus	71836-08-17 07:41 G	27958848.68	27958848.82	27958848.97	0.2707	0.0808
Mercury	71839-09-02 12:00 G	27959959.88	27959960.00	27959960.12	0.2701	0.0453

Mercury	71842-03-02 03:36 G	27960871.58	27960871.65	27960871.71	0.2627	0.2267
Mercury	71852-09-04 08:53 G	27964710.75	27964710.87	27964710.98	0.2695	0.1054
Mercury	71855-03-05 01:27 G	27965622.44	27965622.56	27965622.69	0.2626	0.0766
Mercury	71865-09-07 05:17 G	27969461.65	27969461.72	27969461.78	0.2691	0.2247
Mercury	71868-03-07 00:00 G	27970373.37	27970373.50	27970373.63	0.2627	0.0565
Mercury	71872-08-30 19:41 G	27972011.22	27972011.32	27972011.42	0.2704	0.1596
Mercury	71881-03-09 22:48 G	27975124.37	27975124.45	27975124.54	0.2633	0.2082
Mercury	71885-09-02 17:17 G	27976762.09	27976762.22	27976762.34	0.2701	0.0095
Mercury	71888-03-02 08:53 G	27977673.78	27977673.87	27977673.97	0.2628	0.1839
Mercury	71898-09-05 13:55 G	27981512.97	27981513.08	27981513.19	0.2693	0.1163
Mercury	71901-03-06 06:58 G	27982424.66	27982424.79	27982424.92	0.2626	0.0640
Mercury	71911-09-09 10:05 G	27986263.89	27986263.92	27986263.96	0.2691	0.2546
Mercury	71914-03-09 05:31 G	27987175.60	27987175.73	27987175.85	0.2628	0.0923
Mercury	71918-09-02 00:58 G	27988813.43	27988813.54	27988813.65	0.2704	0.1241
Mercury	71927-03-12 04:19 G	27991926.62	27991926.68	27991926.74	0.2634	0.2349
Mercury	71931-09-04 22:19 G	27993564.31	27993564.43	27993564.56	0.2699	0.0137
Mercury	71934-03-04 14:24 G	27994476.00	27994476.10	27994476.20	0.2627	0.1735
Mercury	71944-09-06 19:12 G	27998315.20	27998315.30	27998315.40	0.2693	0.1567
Mercury	71947-03-07 12:15 G	27999226.88	27999227.01	27999227.15	0.2626	0.0220
Mercury	71951-08-31 08:24 G	28000864.81	28000864.85	28000864.89	0.2707	0.2548
Mercury	71957-09-09 15:07 G	28003066.12	28003066.13	28003066.15	0.2691	0.2660
Venus	71958-02-19 01:12 G	28003228.43	28003228.55	28003228.66	0.2635	0.1657
Mercury	71960-03-09 10:48 G	28003977.83	28003977.95	28003978.08	0.2630	0.1070
Mercury	71964-09-02 06:29 G	28005615.65	28005615.77	28005615.88	0.2704	0.1021
Venus	71966-02-16 21:22 G	28006148.24	28006148.39	28006148.54	0.2632	0.0564
Mercury	71977-09-05 03:36 G	28010366.53	28010366.65	28010366.78	0.2697	0.0463
Mercury	71980-03-04 19:27 G	28011278.20	28011278.31	28011278.43	0.2626	0.1370
Mercury	71990-09-08 00:15 G	28015117.42	28015117.51	28015117.61	0.2693	0.1665
Mercury	71993-03-07 17:46 G	28016029.11	28016029.24	28016029.38	0.2626	0.0120
Mercury	71997-08-31 13:55 G	28017667.00	28017667.08	28017667.15	0.2707	0.2161

73RD MILLENNIUM CE

This is a list of transits visible from Moon in the 73rd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	72006-03-10 16:19	G	28020780.07	28020780.18	28020780.29	0.2631	0.1496	
Mercury	72010-09-03 11:46	G	28022417.87	28022417.99	28022418.11	0.2703	0.0737	
Mercury	72013-03-03 03:07	G	28023329.59	28023329.63	28023329.66	0.2629	0.2503	
Mercury	72023-09-06 08:53	G	28027168.75	28027168.87	28027168.99	0.2696	0.0649	
Mercury	72026-03-06 00:58	G	28028080.42	28028080.54	28028080.66	0.2625	0.1180	
Mercury	72036-09-08 05:17	G	28031919.64	28031919.72	28031919.80	0.2692	0.2021	
Mercury	72039-03-08 23:03	G	28032831.33	28032831.46	28032831.60	0.2627	0.0313	
Mercury	72043-09-01 19:12	G	28034469.22	28034469.30	28034469.38	0.2707	0.2008	
Mercury	72052-03-10 21:51	G	28037582.30	28037582.41	28037582.52	0.2631	0.1609	
Mercury	72056-09-03 17:03	G	28039220.09	28039220.21	28039220.33	0.2701	0.0416	
Mercury	72059-03-04 08:24	G	28040131.78	28040131.85	28040131.92	0.2628	0.2218	
Mercury	72069-09-06 14:10	G	28043970.98	28043971.09	28043971.21	0.2696	0.0944	
Mercury	72072-03-06 06:29	G	28044882.64	28044882.77	28044882.90	0.2625	0.0868	
Venus	72079-08-19 17:46	G	28047605.13	28047605.24	28047605.36	0.2704	0.1868	
Mercury	72082-09-09 10:19	G	28048721.86	28048721.93	28048722.00	0.2691	0.2160	
Mercury	72085-03-09 04:34	G	28049633.56	28049633.69	28049633.82	0.2628	0.0470	
Venus	72087-08-17 05:03	G	28050524.59	28050524.71	28050524.83	0.2699	0.1866	
Mercury	72089-09-02 00:43	G	28051271.43	28051271.53	28051271.63	0.2706	0.1579	
Mercury	72098-03-12 03:22	G	28054384.56	28054384.64	28054384.72	0.2631	0.2073	

Mercury	72102-09-05 22:19 G	28056022.31	28056022.43	28056022.56	0.2699	0.0261
Mercury	72105-03-05 13:41 G	28056933.99	28056934.07	28056934.15	0.2627	0.2050
Mercury	72115-09-08 19:12 G	28060773.19	28060773.30	28060773.42	0.2695	0.1187
Mercury	72118-03-08 11:46 G	28061684.86	28061684.99	28061685.12	0.2626	0.0606
Mercury	72128-09-10 15:22 G	28065524.10	28065524.14	28065524.19	0.2691	0.2456
Mercury	72131-03-11 09:51 G	28066435.79	28066435.91	28066436.04	0.2628	0.0801
Mercury	72135-09-04 06:00 G	28068073.65	28068073.75	28068073.86	0.2705	0.1449
Mercury	72144-03-13 09:07 G	28071186.81	28071186.88	28071186.95	0.2633	0.2226
Mercury	72148-09-06 03:51 G	28072824.53	28072824.66	28072824.78	0.2699	0.0184
Mercury	72151-03-06 18:58 G	28073736.19	28073736.29	28073736.40	0.2626	0.1656
Mercury	72161-09-09 00:29 G	28077575.41	28077575.52	28077575.62	0.2694	0.1380
Mercury	72164-03-08 17:03 G	28078487.08	28078487.21	28078487.35	0.2626	0.0402
Mercury	72168-09-01 13:12 G	28080125.04	28080125.05	28080125.07	0.2708	0.2669
Mercury	72174-09-11 20:39 G	28082326.35	28082326.36	28082326.37	0.2691	0.2679
Mercury	72177-03-11 15:22 G	28083238.02	28083238.14	28083238.27	0.2628	0.1062
Mercury	72181-09-04 11:31 G	28084875.87	28084875.98	28084876.10	0.2703	0.1014
Mercury	72190-03-14 14:39 G	28087989.10	28087989.11	28087989.12	0.2635	0.2623
Mercury	72194-09-07 08:53 G	28089626.75	28089626.87	28089627.00	0.2699	0.0287
Mercury	72197-03-07 00:29 G	28090538.42	28090538.52	28090538.63	0.2626	0.1541
Venus	72201-02-21 04:48 G	28091984.64	28091984.70	28091984.75	0.2622	0.2458
Mercury	72207-09-11 05:31 G	28094377.63	28094377.73	28094377.82	0.2693	0.1718
Venus	72209-02-18 16:48 G	28094904.06	28094904.20	28094904.34	0.2623	0.1402
Mercury	72210-03-10 22:19 G	28095289.30	28095289.43	28095289.57	0.2626	0.0055
Mercury	72214-09-03 18:43 G	28096927.22	28096927.28	28096927.34	0.2708	0.2301
Mercury	72223-03-13 20:53 G	28100040.26	28100040.37	28100040.49	0.2629	0.1329
Mercury	72227-09-06 17:03 G	28101678.09	28101678.21	28101678.32	0.2702	0.0864
Mercury	72240-09-08 14:10 G	28106428.97	28106429.09	28106429.21	0.2698	0.0675
Mercury	72243-03-09 06:00 G	28107340.62	28107340.75	28107340.87	0.2626	0.1128
Mercury	72253-09-11 10:48 G	28111179.86	28111179.95	28111180.04	0.2692	0.1837
Mercury	72256-03-11 03:51 G	28112091.52	28112091.66	28112091.79	0.2626	0.0086

Mercury	72260-09-04 00:15 G	28113729.43	28113729.51	28113729.59	0.2707	0.2031
Mercury	72269-03-14 02:24 G	28116842.50	28116842.60	28116842.71	0.2630	0.1673
Mercury	72273-09-06 22:19 G	28118480.31	28118480.43	28118480.55	0.2702	0.0482
Mercury	72276-03-06 13:12 G	28119391.99	28119392.05	28119392.12	0.2627	0.2259
Mercury	72286-09-09 19:12 G	28123231.19	28123231.30	28123231.42	0.2696	0.0786
Mercury	72289-03-09 11:03 G	28124142.84	28124142.96	28124143.09	0.2626	0.1024
Mercury	72299-09-12 15:51 G	28127982.09	28127982.16	28127982.23	0.2692	0.2227
Mercury	72302-03-13 09:22 G	28128893.75	28128893.89	28128894.02	0.2626	0.0529
Mercury	72306-09-06 05:46 G	28130531.65	28130531.74	28130531.83	0.2705	0.1770
Mercury	72315-03-16 07:55 G	28133644.74	28133644.83	28133644.93	0.2632	0.1834
Mercury	72319-09-09 03:36 G	28135282.53	28135282.65	28135282.77	0.2702	0.0294
Mercury	72322-03-08 18:43 G	28136194.20	28136194.28	28136194.36	0.2627	0.2072
Venus	72322-08-22 06:00 G	28136360.59	28136360.75	28136360.91	0.2703	0.0164
Mercury	72332-09-11 00:29 G	28140033.41	28140033.52	28140033.63	0.2694	0.1157
Mercury	72335-03-11 16:19 G	28140945.05	28140945.18	28140945.31	0.2625	0.0651
Mercury	72345-09-13 20:53 G	28144784.31	28144784.37	28144784.43	0.2692	0.2324
Mercury	72348-03-13 14:39 G	28145695.98	28145696.11	28145696.25	0.2627	0.0642
Mercury	72352-09-06 11:17 G	28147333.86	28147333.97	28147334.07	0.2705	0.1397
Mercury	72361-03-16 13:27 G	28150446.99	28150447.06	28150447.12	0.2633	0.2275
Mercury	72365-09-09 08:53 G	28152084.74	28152084.87	28152084.99	0.2700	0.0073
Mercury	72368-03-09 00:00 G	28152996.40	28152996.50	28152996.60	0.2627	0.1776
Mercury	72378-09-12 05:46 G	28156835.63	28156835.74	28156835.85	0.2694	0.1319
Mercury	72381-03-11 21:51 G	28157747.28	28157747.41	28157747.54	0.2625	0.0468
Mercury	72385-09-04 18:15 G	28159385.24	28159385.26	28159385.29	0.2708	0.2642
Mercury	72391-09-15 01:55 G	28161586.57	28161586.58	28161586.59	0.2692	0.2675
Mercury	72394-03-14 19:55 G	28162498.21	28162498.33	28162498.46	0.2629	0.1047
Mercury	72398-09-07 16:34 G	28164136.08	28164136.19	28164136.30	0.2705	0.1240
Mercury	72407-03-17 19:12 G	28167249.24	28167249.30	28167249.35	0.2633	0.2401
Mercury	72411-09-10 14:10 G	28168886.96	28168887.09	28168887.21	0.2698	0.0312
Mercury	72414-03-10 05:17 G	28169798.61	28169798.72	28169798.83	0.2626	0.1503

Mercury	72424-09-12 11:03 G	28173637.86	28173637.96	28173638.05	0.2694	0.1634
Mercury	72427-03-13 03:22 G	28174549.50	28174549.64	28174549.77	0.2625	0.0135
Mercury	72431-09-06 00:00 G	28176187.45	28176187.50	28176187.54	0.2708	0.2484
Mercury	72440-03-15 01:27 G	28179300.44	28179300.56	28179300.68	0.2630	0.1210
Venus	72444-02-23 02:10 G	28180740.52	28180740.59	28180740.68	0.2632	0.2218
Mercury	72444-09-07 21:51 G	28180938.30	28180938.41	28180938.53	0.2704	0.0828
Mercury	72447-03-08 12:43 G	28181850.00	28181850.03	28181850.06	0.2629	0.2543
Venus	72452-02-20 22:48 G	28183660.30	28183660.45	28183660.60	0.2634	0.0283
Mercury	72457-09-10 19:27 G	28185689.18	28185689.31	28185689.43	0.2697	0.0476
Mercury	72460-03-10 10:34 G	28186600.83	28186600.94	28186601.06	0.2625	0.1332
Mercury	72470-09-13 16:05 G	28190440.08	28190440.17	28190440.26	0.2693	0.1853
Mercury	72473-03-13 08:39 G	28191351.72	28191351.86	28191351.99	0.2626	0.0114
Mercury	72477-09-06 05:17 G	28192989.64	28192989.72	28192989.80	0.2708	0.2053
Mercury	72486-03-16 06:58 G	28196102.69	28196102.79	28196102.90	0.2630	0.1573
Mercury	72490-09-09 03:22 G	28197740.52	28197740.64	28197740.76	0.2702	0.0697
Mercury	72493-03-08 18:00 G	28198652.21	28198652.25	28198652.30	0.2628	0.2444
Mercury	72503-09-13 00:43 G	28202491.41	28202491.53	28202491.65	0.2697	0.0860
Mercury	72506-03-12 16:05 G	28203403.04	28203403.17	28203403.29	0.2625	0.0945
Mercury	72516-09-14 21:07 G	28207242.30	28207242.38	28207242.46	0.2693	0.2046
Mercury	72519-03-15 13:55 G	28208153.95	28208154.08	28208154.21	0.2627	0.0325
Mercury	72523-09-08 10:48 G	28209791.86	28209791.95	28209792.03	0.2707	0.1903
Mercury	72532-03-17 12:29 G	28212904.93	28212905.02	28212905.12	0.2630	0.1812
Mercury	72536-09-10 08:39 G	28214542.74	28214542.86	28214542.99	0.2700	0.0269
Mercury	72539-03-10 23:31 G	28215454.39	28215454.48	28215454.56	0.2626	0.2038
Mercury	72549-09-13 05:46 G	28219293.63	28219293.74	28219293.86	0.2696	0.0980
Mercury	72552-03-12 21:22 G	28220205.26	28220205.39	28220205.52	0.2625	0.0819
Mercury	72562-09-16 02:10 G	28224044.54	28224044.59	28224044.65	0.2692	0.2382
Mercury	72565-03-15 19:12 G	28224956.17	28224956.30	28224956.43	0.2627	0.0691
Venus	72565-08-23 16:19 G	28225117.08	28225117.18	28225117.29	0.2709	0.1932
Mercury	72569-09-08 16:05 G	28226594.07	28226594.17	28226594.27	0.2706	0.1521

Venus	72573-08-21 06:58 G	28228036.70	28228036.79	28228036.89	0.2704	0.2152
Mercury	72578-03-18 18:15 G	28229707.18	28229707.26	28229707.34	0.2631	0.2111
Mercury	72582-09-11 13:55 G	28231344.96	28231345.08	28231345.21	0.2700	0.0171
Mercury	72585-03-11 04:48 G	28232256.61	28232256.70	28232256.79	0.2625	0.1916
Mercury	72595-09-14 11:03 G	28236095.85	28236095.96	28236096.06	0.2695	0.1363
Mercury	72598-03-14 02:39 G	28237007.48	28237007.61	28237007.74	0.2625	0.0418
Mercury	72608-09-17 07:27 G	28240846.77	28240846.81	28240846.85	0.2692	0.2509
Mercury	72611-03-18 00:43 G	28241758.41	28241758.53	28241758.66	0.2627	0.0836
Mercury	72615-09-10 21:36 G	28243396.29	28243396.40	28243396.51	0.2704	0.1261
Mercury	72624-03-19 23:46 G	28246509.44	28246509.49	28246509.53	0.2633	0.2456
Mercury	72628-09-12 19:27 G	28248147.18	28248147.31	28248147.43	0.2700	0.0269
Mercury	72631-03-13 10:19 G	28249058.82	28249058.93	28249059.03	0.2625	0.1531
Mercury	72641-09-15 16:05 G	28252898.07	28252898.17	28252898.27	0.2694	0.1462
Mercury	72644-03-15 07:55 G	28253809.70	28253809.83	28253809.96	0.2626	0.0312
Mercury	72648-09-08 04:34 G	28255447.65	28255447.69	28255447.74	0.2709	0.2483
Mercury	72657-03-18 06:15 G	28258560.65	28258560.76	28258560.88	0.2628	0.1273
Mercury	72661-09-11 03:07 G	28260198.51	28260198.63	28260198.74	0.2703	0.1002
Mercury	72670-03-21 05:17 G	28263311.72	28263311.72	28263311.72	0.2635	0.2632
Mercury	72674-09-14 00:29 G	28264949.40	28264949.52	28264949.65	0.2699	0.0433
Mercury	72677-03-13 15:36 G	28265861.04	28265861.15	28265861.26	0.2626	0.1359
Mercury	72687-09-16 21:22 G	28269700.30	28269700.39	28269700.48	0.2693	0.1847
Mercury	72690-03-16 13:12 G	28270611.92	28270612.05	28270612.19	0.2626	0.0113
Mercury	72694-09-09 10:05 G	28272249.86	28272249.92	28272249.99	0.2708	0.2301
Venus	72695-02-23 03:36 G	28272416.48	28272416.65	28272416.82	0.2622	0.0142
Mercury	72703-03-20 11:46 G	28275362.88	28275362.99	28275363.10	0.2629	0.1387
Mercury	72707-09-13 08:24 G	28277000.73	28277000.85	28277000.97	0.2703	0.0657
Mercury	72710-03-12 23:03 G	28277912.41	28277912.46	28277912.52	0.2627	0.2369
Mercury	72720-09-15 05:46 G	28281751.62	28281751.74	28281751.86	0.2697	0.0710
Mercury	72723-03-15 20:53 G	28282663.25	28282663.37	28282663.49	0.2625	0.1067
Mercury	72733-09-18 02:24 G	28286502.52	28286502.60	28286502.69	0.2693	0.1989

Mercury	72736-03-17 18:43 G	28287414.15	28287414.28	28287414.42	0.2626	0.0258
Mercury	72740-09-10 15:51 G	28289052.07	28289052.16	28289052.25	0.2706	0.1849
Mercury	72749-03-20 17:03 G	28292165.12	28292165.21	28292165.31	0.2631	0.1818
Mercury	72753-09-13 13:41 G	28293802.95	28293803.07	28293803.20	0.2703	0.0491
Mercury	72756-03-13 04:34 G	28294714.62	28294714.69	28294714.76	0.2627	0.2207
Mercury	72766-09-16 11:03 G	28298553.84	28298553.96	28298554.07	0.2696	0.0995
Mercury	72769-03-16 02:10 G	28299465.46	28299465.59	28299465.71	0.2625	0.0795
Mercury	72779-09-19 07:27 G	28303304.75	28303304.81	28303304.88	0.2693	0.2303
Mercury	72782-03-19 00:15 G	28304216.38	28304216.51	28304216.64	0.2626	0.0604
Mercury	72786-09-11 21:22 G	28305854.29	28305854.39	28305854.48	0.2706	0.1711
Mercury	72795-03-21 22:34 G	28308967.36	28308967.44	28308967.53	0.2632	0.1970
Mercury	72799-09-14 19:12 G	28310605.17	28310605.30	28310605.42	0.2701	0.0105
Mercury	72802-03-14 09:51 G	28311516.82	28311516.91	28311517.00	0.2626	0.1832
Venus	72808-08-25 07:27 G	28313872.65	28313872.81	28313872.98	0.2700	0.0381
Mercury	72812-09-16 16:19 G	28315356.07	28315356.18	28315356.29	0.2695	0.1187
Mercury	72815-03-17 07:27 G	28316267.68	28316267.81	28316267.94	0.2624	0.0607
Mercury	72825-09-19 12:29 G	28320106.98	28320107.02	28320107.06	0.2693	0.2517
Mercury	72828-03-19 05:31 G	28321018.60	28321018.73	28321018.86	0.2628	0.0848
Mercury	72832-09-12 02:39 G	28322656.50	28322656.61	28322656.72	0.2706	0.1273
Mercury	72841-03-22 04:19 G	28325769.62	28325769.68	28325769.73	0.2632	0.2370
Mercury	72845-09-15 00:29 G	28327407.39	28327407.52	28327407.64	0.2699	0.0053
Mercury	72848-03-14 15:07 G	28328319.03	28328319.13	28328319.23	0.2626	0.1726
Mercury	72858-09-17 21:22 G	28332158.29	28332158.39	28332158.50	0.2695	0.1543
Mercury	72861-03-17 12:58 G	28333069.90	28333070.04	28333070.17	0.2625	0.0227
Mercury	72865-09-10 09:51 G	28334707.88	28334707.91	28334707.94	0.2708	0.2604
Mercury	72874-03-20 10:48 G	28337820.83	28337820.95	28337821.08	0.2629	0.1068
Mercury	72878-09-13 08:10 G	28339458.72	28339458.84	28339458.95	0.2705	0.1137
Mercury	72887-03-23 09:51 G	28342571.89	28342571.91	28342571.93	0.2633	0.2588
Mercury	72891-09-16 05:46 G	28344209.61	28344209.74	28344209.86	0.2698	0.0467
Mercury	72894-03-15 20:24 G	28345121.23	28345121.35	28345121.46	0.2624	0.1322

Mercury	72904-09-19 02:39 G	28348960.51	28348960.61	28348960.70	0.2694	0.1664
Mercury	72907-03-19 18:15 G	28349872.13	28349872.26	28349872.39	0.2625	0.0097
Mercury	72911-09-12 15:22 G	28351510.07	28351510.14	28351510.20	0.2708	0.2313
Mercury	72920-03-21 16:19 G	28354623.07	28354623.18	28354623.29	0.2629	0.1437
Mercury	72924-09-14 13:27 G	28356260.94	28356261.06	28356261.18	0.2703	0.0752
Mercury	72927-03-15 04:05 G	28357172.62	28357172.67	28357172.71	0.2628	0.2426
Mercury	72937-09-17 11:03 G	28361011.84	28361011.96	28361012.08	0.2698	0.0574
Venus	72938-02-25 00:00 G	28361172.35	28361172.50	28361172.65	0.2631	0.0586
Mercury	72940-03-17 01:41 G	28361923.46	28361923.57	28361923.69	0.2624	0.1203
Mercury	72950-09-20 07:41 G	28365762.74	28365762.82	28365762.90	0.2693	0.2038
Mercury	72953-03-19 23:31 G	28366674.34	28366674.48	28366674.61	0.2626	0.0303
Mercury	72957-09-12 20:39 G	28368312.28	28368312.36	28368312.44	0.2708	0.2058
Mercury	72966-03-22 21:51 G	28371425.30	28371425.41	28371425.52	0.2629	0.1598
Mercury	72970-09-15 18:58 G	28373063.16	28373063.29	28373063.41	0.2702	0.0515
Mercury	72973-03-15 09:22 G	28373974.82	28373974.89	28373974.96	0.2626	0.2227
Mercury	72983-09-18 16:19 G	28377814.06	28377814.18	28377814.29	0.2697	0.0973
Mercury	72986-03-18 07:12 G	28378725.67	28378725.80	28378725.92	0.2625	0.0808
Mercury	72996-09-20 12:43 G	28382564.96	28382565.03	28382565.11	0.2693	0.2136
Mercury	72999-03-21 04:48 G	28383476.57	28383476.70	28383476.83	0.2627	0.0412

74TH MILLENNIUM CE

This is a list of transits visible from Moon in the 74th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
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Mercury	73003-09-15 02:10 G	28385114.49	28385114.59	28385114.69	0.2707	0.1698
Mercury	73012-03-24 03:22 G	28388227.56	28388227.64	28388227.73	0.2630	0.2035
Mercury	73016-09-17 00:15 G	28389865.39	28389865.51	28389865.64	0.2701	0.0241
Mercury	73019-03-17 14:39 G	28390777.03	28390777.11	28390777.20	0.2625	0.1972
Mercury	73029-09-19 21:22 G	28394616.28	28394616.39	28394616.50	0.2696	0.1123
Mercury	73032-03-19 12:29 G	28395527.89	28395528.02	28395528.15	0.2625	0.0644
Mercury	73042-09-22 18:00 G	28399367.21	28399367.25	28399367.29	0.2692	0.2530
Mercury	73045-03-22 10:19 G	28400278.80	28400278.93	28400279.05	0.2626	0.0837
Mercury	73049-09-15 07:41 G	28401916.72	28401916.82	28401916.92	0.2706	0.1509
Venus	73051-08-28 12:43 G	28402628.90	28402629.03	28402629.17	0.2712	0.1170
Mercury	73058-03-25 08:53 G	28405029.80	28405029.87	28405029.95	0.2632	0.2164
Venus	73059-08-26 06:00 G	28405548.69	28405548.75	28405548.82	0.2709	0.2432
Mercury	73062-09-18 05:31 G	28406667.61	28406667.73	28406667.86	0.2701	0.0084
Mercury	73065-03-17 20:10 G	28407579.24	28407579.34	28407579.44	0.2625	0.1663
Mercury	73075-09-21 02:24 G	28411418.50	28411418.60	28411418.71	0.2695	0.1413
Mercury	73078-03-20 17:31 G	28412330.10	28412330.23	28412330.37	0.2625	0.0366
Mercury	73088-09-22 23:03 G	28416169.45	28416169.46	28416169.48	0.2693	0.2663
Mercury	73091-03-23 15:51 G	28417081.03	28417081.16	28417081.28	0.2627	0.0991
Mercury	73095-09-16 13:12 G	28418718.93	28418719.05	28418719.16	0.2704	0.1068
Mercury	73104-03-26 14:24 G	28421832.10	28421832.10	28421832.11	0.2634	0.2622
Mercury	73108-09-19 10:48 G	28423469.83	28423469.95	28423470.08	0.2700	0.0271
Mercury	73111-03-20 01:27 G	28424381.45	28424381.56	28424381.67	0.2625	0.1475
Mercury	73121-09-22 07:41 G	28428220.73	28428220.82	28428220.92	0.2694	0.1682
Mercury	73124-03-21 23:03 G	28429132.32	28429132.46	28429132.59	0.2625	0.0112
Mercury	73128-09-14 20:10 G	28430770.28	28430770.34	28430770.40	0.2709	0.2365
Mercury	73137-03-24 21:07 G	28433883.27	28433883.38	28433883.50	0.2628	0.1354
Mercury	73141-09-17 18:43 G	28435521.16	28435521.28	28435521.39	0.2704	0.0954
Mercury	73144-03-17 09:07 G	28436432.86	28436432.88	28436432.89	0.2626	0.2600
Mercury	73154-09-20 16:05 G	28440272.05	28440272.17	28440272.29	0.2698	0.0636
Mercury	73157-03-20 06:43 G	28441183.66	28441183.78	28441183.90	0.2625	0.1129

Mercury	73167-09-23 12:58 G	28445022.96	28445023.04	28445023.13	0.2694	0.1890
Mercury	73170-03-23 04:19 G	28445934.55	28445934.68	28445934.82	0.2625	0.0133
Mercury	73174-09-16 01:41 G	28447572.50	28447572.57	28447572.64	0.2707	0.2161
Venus	73181-02-27 12:15 G	28449928.86	28449929.01	28449929.16	0.2625	0.1094
Mercury	73183-03-26 02:39 G	28450685.50	28450685.61	28450685.71	0.2630	0.1604
Mercury	73187-09-19 00:00 G	28452323.37	28452323.50	28452323.62	0.2704	0.0514
Venus	73189-02-25 01:41 G	28452848.54	28452848.57	28452848.61	0.2621	0.2555
Mercury	73190-03-18 14:24 G	28453235.03	28453235.10	28453235.17	0.2626	0.2181
Mercury	73200-09-20 21:22 G	28457074.27	28457074.39	28457074.51	0.2697	0.0752
Mercury	73203-03-21 11:46 G	28457985.87	28457985.99	28457986.12	0.2624	0.1018
Mercury	73213-09-23 18:15 G	28461825.19	28461825.26	28461825.33	0.2694	0.2216
Mercury	73216-03-23 09:51 G	28462736.78	28462736.91	28462737.04	0.2625	0.0496
Mercury	73220-09-16 07:12 G	28464374.71	28464374.80	28464374.89	0.2707	0.1800
Mercury	73229-03-26 07:55 G	28467487.74	28467487.83	28467487.93	0.2631	0.1846
Mercury	73233-09-19 05:17 G	28469125.60	28469125.72	28469125.84	0.2702	0.0380
Mercury	73236-03-18 19:41 G	28470037.24	28470037.32	28470037.40	0.2626	0.2072
Mercury	73246-09-22 02:39 G	28473876.50	28473876.61	28473876.72	0.2696	0.1178
Mercury	73249-03-21 17:03 G	28474788.09	28474788.21	28474788.34	0.2624	0.0610
Mercury	73259-09-24 23:17 G	28478627.41	28478627.47	28478627.53	0.2694	0.2340
Mercury	73262-03-24 15:07 G	28479539.00	28479539.13	28479539.26	0.2627	0.0632
Mercury	73266-09-17 12:43 G	28481176.92	28481177.03	28481177.13	0.2707	0.1543
Mercury	73275-03-27 13:41 G	28484289.99	28484290.07	28484290.14	0.2631	0.2209
Mercury	73279-09-20 10:34 G	28485927.82	28485927.94	28485928.07	0.2700	0.0033
Mercury	73282-03-20 00:58 G	28486839.44	28486839.54	28486839.64	0.2625	0.1708
Mercury	73292-09-22 07:55 G	28490678.72	28490678.83	28490678.94	0.2696	0.1282
Venus	73294-08-29 11:46 G	28491384.85	28491384.99	28491385.14	0.2699	0.1314
Mercury	73295-03-22 22:34 G	28491590.31	28491590.44	28491590.57	0.2624	0.0490
Mercury	73308-03-25 20:24 G	28496341.23	28496341.35	28496341.47	0.2628	0.1046
Mercury	73312-09-18 18:00 G	28497979.14	28497979.25	28497979.36	0.2706	0.1262
Mercury	73321-03-28 19:12 G	28501092.25	28501092.30	28501092.35	0.2631	0.2398

Mercury	73325-09-21 16:05 G	28502730.04	28502730.17	28502730.29	0.2699	0.0234
Mercury	73328-03-21 06:15 G	28503641.65	28503641.76	28503641.87	0.2624	0.1521
Mercury	73338-09-24 12:58 G	28507480.94	28507481.04	28507481.14	0.2695	0.1665
Mercury	73341-03-24 04:05 G	28508392.53	28508392.67	28508392.80	0.2625	0.0116
Mercury	73345-09-17 01:12 G	28510030.51	28510030.55	28510030.58	0.2709	0.2594
Mercury	73354-03-27 01:55 G	28513143.46	28513143.58	28513143.70	0.2628	0.1161
Mercury	73358-09-19 23:31 G	28514781.36	28514781.48	28514781.60	0.2705	0.0919
Mercury	73361-03-19 14:10 G	28515693.06	28515693.09	28515693.12	0.2627	0.2539
Mercury	73371-09-22 21:22 G	28519532.27	28519532.39	28519532.51	0.2699	0.0513
Mercury	73374-03-22 11:31 G	28520443.87	28520443.98	28520444.10	0.2624	0.1244
Mercury	73384-09-24 18:00 G	28524283.16	28524283.25	28524283.35	0.2694	0.1814
Mercury	73387-03-25 09:22 G	28525194.75	28525194.89	28525195.02	0.2625	0.0106
Mercury	73391-09-18 06:29 G	28526832.70	28526832.77	28526832.85	0.2709	0.2145
Mercury	73400-03-28 07:27 G	28529945.70	28529945.81	28529945.91	0.2628	0.1607
Mercury	73404-09-21 05:03 G	28531583.59	28531583.71	28531583.83	0.2703	0.0736
Mercury	73407-03-21 19:27 G	28532495.25	28532495.31	28532495.36	0.2626	0.2374
Mercury	73417-09-24 02:39 G	28536334.49	28536334.61	28536334.73	0.2699	0.0788
Mercury	73420-03-23 17:03 G	28537246.09	28537246.21	28537246.33	0.2624	0.0960
Venus	73424-03-01 04:05 G	28538684.51	28538684.67	28538684.82	0.2627	0.0328
Mercury	73430-09-26 23:17 G	28541085.39	28541085.47	28541085.54	0.2694	0.2106
Venus	73432-02-27 22:19 G	28541604.43	28541604.43	28541604.43	0.2632	0.2631
Mercury	73433-03-26 14:24 G	28541996.97	28541997.10	28541997.24	0.2626	0.0376
Mercury	73437-09-19 12:00 G	28543634.92	28543635.00	28543635.08	0.2708	0.2012
Mercury	73446-03-29 12:58 G	28546747.94	28546748.04	28546748.14	0.2629	0.1752
Mercury	73450-09-22 10:19 G	28548385.81	28548385.93	28548386.06	0.2702	0.0312
Mercury	73453-03-22 00:43 G	28549297.44	28549297.53	28549297.61	0.2625	0.1990
Mercury	73463-09-25 07:41 G	28553136.71	28553136.82	28553136.94	0.2697	0.0993
Mercury	73466-03-24 22:19 G	28554048.30	28554048.43	28554048.56	0.2624	0.0757
Mercury	73476-09-27 04:34 G	28557887.63	28557887.69	28557887.75	0.2693	0.2359
Mercury	73479-03-27 19:55 G	28558799.20	28558799.33	28558799.46	0.2626	0.0646

Mercury	73483-09-20 17:31 G	28560437.13	28560437.23	28560437.34	0.2707	0.1561
Mercury	73492-03-29 18:15 G	28563550.19	28563550.26	28563550.34	0.2631	0.2131
Mercury	73496-09-22 15:51 G	28565188.03	28565188.16	28565188.28	0.2702	0.0199
Mercury	73499-03-23 06:00 G	28566099.66	28566099.75	28566099.84	0.2624	0.1881
Mercury	73509-09-26 12:58 G	28569938.93	28569939.04	28569939.14	0.2696	0.1342
Mercury	73512-03-26 03:22 G	28570850.51	28570850.64	28570850.78	0.2624	0.0426
Mercury	73522-09-29 09:36 G	28574689.87	28574689.90	28574689.94	0.2693	0.2584
Mercury	73525-03-29 01:27 G	28575601.43	28575601.56	28575601.68	0.2626	0.0888
Mercury	73529-09-21 23:03 G	28577239.36	28577239.46	28577239.57	0.2705	0.1380
Venus	73537-09-01 07:55 G	28580140.68	28580140.83	28580140.98	0.2711	0.0338
Mercury	73538-03-31 23:46 G	28580352.44	28580352.49	28580352.55	0.2633	0.2383
Mercury	73542-09-24 21:07 G	28581990.25	28581990.38	28581990.50	0.2701	0.0250
Mercury	73545-03-24 11:17 G	28582901.86	28582901.97	28582902.08	0.2625	0.1467
Venus	73545-08-30 02:10 G	28583060.52	28583060.59	28583060.66	0.2712	0.2381
Mercury	73555-09-27 18:15 G	28586741.15	28586741.26	28586741.36	0.2695	0.1463
Mercury	73558-03-27 08:39 G	28587652.73	28587652.86	28587653.00	0.2624	0.0311
Mercury	73562-09-20 05:46 G	28589290.72	28589290.74	28589290.77	0.2709	0.2636
Mercury	73571-03-30 06:43 G	28592403.66	28592403.78	28592403.90	0.2627	0.1235
Mercury	73575-09-23 04:34 G	28594041.58	28594041.69	28594041.81	0.2705	0.1001
Mercury	73578-03-22 19:12 G	28594953.28	28594953.30	28594953.32	0.2626	0.2577
Mercury	73588-09-25 02:24 G	28598792.47	28598792.60	28598792.72	0.2699	0.0368
Mercury	73591-03-25 16:34 G	28599704.08	28599704.19	28599704.31	0.2624	0.1358
Mercury	73601-09-27 23:17 G	28603543.39	28603543.47	28603543.56	0.2695	0.1881
Mercury	73604-03-27 14:10 G	28604454.95	28604455.09	28604455.22	0.2624	0.0135
Mercury	73608-09-20 11:31 G	28606092.92	28606092.98	28606093.04	0.2708	0.2355
Mercury	73617-03-30 12:00 G	28609205.89	28609206.00	28609206.12	0.2629	0.1383
Mercury	73621-09-23 09:51 G	28610843.79	28610843.91	28610844.03	0.2705	0.0787
Mercury	73624-03-23 00:29 G	28611755.47	28611755.52	28611755.58	0.2626	0.2375
Mercury	73634-09-26 07:27 G	28615594.69	28615594.81	28615594.93	0.2698	0.0740
Mercury	73637-03-25 21:51 G	28616506.29	28616506.41	28616506.53	0.2624	0.0996

Mercury	73647-09-29 04:34 G	28620345.61	28620345.69	28620345.78	0.2695	0.1982
Mercury	73650-03-28 19:41 G	28621257.18	28621257.32	28621257.45	0.2625	0.0254
Mercury	73654-09-21 17:03 G	28622895.13	28622895.21	28622895.30	0.2708	0.1951
Mercury	73663-03-31 17:31 G	28626008.13	28626008.23	28626008.32	0.2630	0.1814
Venus	73667-03-03 17:31 G	28627441.10	28627441.23	28627441.36	0.2629	0.1436
Mercury	73667-09-24 15:22 G	28627646.02	28627646.14	28627646.26	0.2704	0.0481
Mercury	73670-03-24 05:46 G	28628557.67	28628557.74	28628557.82	0.2626	0.2097
Venus	73675-03-01 09:51 G	28630360.82	28630360.91	28630361.01	0.2624	0.2113
Mercury	73680-09-26 12:58 G	28632396.92	28632397.04	28632397.15	0.2697	0.0929
Mercury	73683-03-27 03:07 G	28633308.51	28633308.63	28633308.76	0.2623	0.0816
Mercury	73693-09-29 09:36 G	28637147.84	28637147.90	28637147.96	0.2694	0.2348
Mercury	73696-03-29 00:43 G	28638059.41	28638059.53	28638059.66	0.2626	0.0646
Mercury	73700-09-22 22:34 G	28639697.35	28639697.44	28639697.53	0.2708	0.1790
Mercury	73709-04-01 23:03 G	28642810.37	28642810.46	28642810.55	0.2630	0.1932
Mercury	73713-09-25 20:39 G	28644448.24	28644448.36	28644448.49	0.2702	0.0168
Mercury	73716-03-25 11:03 G	28645359.87	28645359.96	28645360.05	0.2625	0.1827
Mercury	73726-09-28 18:15 G	28649199.15	28649199.26	28649199.37	0.2697	0.1247
Mercury	73729-03-28 08:24 G	28650110.73	28650110.85	28650110.98	0.2623	0.0519
Mercury	73739-10-01 14:53 G	28653950.07	28653950.12	28653950.16	0.2694	0.2497
Mercury	73742-03-31 06:00 G	28654861.63	28654861.75	28654861.88	0.2627	0.0808
Mercury	73746-09-24 03:51 G	28656499.56	28656499.66	28656499.77	0.2707	0.1357
Mercury	73755-04-03 04:34 G	28659612.64	28659612.69	28659612.74	0.2630	0.2390
Mercury	73759-09-27 02:10 G	28661250.46	28661250.59	28661250.71	0.2700	0.0068
Mercury	73762-03-26 16:19 G	28662162.08	28662162.18	28662162.28	0.2624	0.1659
Mercury	73772-09-28 23:17 G	28666001.37	28666001.47	28666001.58	0.2696	0.1493
Mercury	73775-03-29 13:55 G	28666912.94	28666913.08	28666913.21	0.2624	0.0261
Mercury	73779-09-22 10:48 G	28668550.93	28668550.95	28668550.97	0.2710	0.2658
Venus	73780-09-02 16:05 G	28668897.05	28668897.17	28668897.30	0.2703	0.1681
Mercury	73788-03-31 11:31 G	28671663.86	28671663.98	28671664.10	0.2627	0.1126
Mercury	73792-09-24 09:22 G	28673301.78	28673301.89	28673302.00	0.2706	0.1220

Mercury	73801-04-04	10:05	G	28676414.89	28676414.92	28676414.96	0.2632	0.2544
Mercury	73805-09-28	07:27	G	28678052.68	28678052.81	28678052.93	0.2700	0.0432
Mercury	73808-03-27	21:36	G	28678964.29	28678964.40	28678964.51	0.2623	0.1275
Mercury	73818-10-01	04:34	G	28682803.59	28682803.69	28682803.79	0.2695	0.1693
Mercury	73821-03-30	18:58	G	28683715.16	28683715.29	28683715.43	0.2624	0.0104
Mercury	73825-09-23	16:19	G	28685353.13	28685353.18	28685353.23	0.2710	0.2482
Mercury	73834-04-02	17:03	G	28688466.09	28688466.21	28688466.32	0.2627	0.1384
Mercury	73838-09-26	14:53	G	28690104.00	28690104.12	28690104.24	0.2704	0.0771
Mercury	73841-03-26	05:31	G	28691015.67	28691015.73	28691015.79	0.2626	0.2340
Mercury	73851-09-29	12:43	G	28694854.91	28694855.03	28694855.16	0.2700	0.0555
Mercury	73854-03-29	02:53	G	28695766.51	28695766.62	28695766.74	0.2623	0.1164
Mercury	73864-10-01	09:36	G	28699605.82	28699605.90	28699605.98	0.2694	0.2037
Mercury	73867-04-01	00:15	G	28700517.38	28700517.51	28700517.64	0.2625	0.0301
Mercury	73871-09-24	21:51	G	28702155.33	28702155.41	28702155.48	0.2709	0.2099
Mercury	73880-04-02	22:34	G	28705268.33	28705268.44	28705268.54	0.2628	0.1659
Mercury	73884-09-26	20:24	G	28706906.23	28706906.35	28706906.47	0.2703	0.0617
Mercury	73887-03-27	10:48	G	28707817.88	28707817.95	28707818.02	0.2624	0.2217
Mercury	73897-09-29	18:00	G	28711657.13	28711657.25	28711657.37	0.2698	0.0968
Mercury	73900-03-30	08:10	G	28712568.72	28712568.84	28712568.97	0.2624	0.0760
Venus	73910-03-06	11:03	G	28716196.80	28716196.96	28716197.11	0.2622	0.0793
Mercury	73910-10-03	14:53	G	28716408.05	28716408.12	28716408.19	0.2694	0.2167
Mercury	73913-04-02	05:46	G	28717319.60	28717319.74	28717319.87	0.2625	0.0441
Mercury	73917-09-26	03:22	G	28718957.55	28718957.64	28718957.73	0.2708	0.1824
Venus	73918-03-04	01:55	G	28719116.49	28719116.58	28719116.67	0.2627	0.2132
Mercury	73926-04-05	03:51	G	28722070.58	28722070.66	28722070.75	0.2630	0.1997
Mercury	73930-09-29	01:41	G	28723708.45	28723708.57	28723708.70	0.2703	0.0230
Mercury	73933-03-28	16:05	G	28724620.08	28724620.17	28724620.27	0.2624	0.1851
Mercury	73943-10-01	23:03	G	28728459.35	28728459.46	28728459.58	0.2697	0.1081
Mercury	73946-03-31	13:27	G	28729370.93	28729371.06	28729371.19	0.2624	0.0649
Mercury	73956-10-03	20:10	G	28733210.30	28733210.34	28733210.37	0.2694	0.2569

Mercury	73959-04-03 11:03 G	28734121.84	28734121.96	28734122.09	0.2625	0.0864
Mercury	73963-09-27 08:53 G	28735759.77	28735759.87	28735759.98	0.2706	0.1549
Mercury	73972-04-05 09:22 G	28738872.82	28738872.89	28738872.96	0.2632	0.2164
Mercury	73976-09-29 07:12 G	28740510.67	28740510.80	28740510.92	0.2702	0.0096
Mercury	73979-03-29 21:22 G	28741422.30	28741422.39	28741422.49	0.2624	0.1673
Mercury	73989-10-02 04:19 G	28745261.58	28745261.68	28745261.79	0.2696	0.1463
Mercury	73992-03-31 18:43 G	28746173.15	28746173.28	28746173.41	0.2623	0.0286

75TH MILLENNIUM CE

This is a list of transits visible from Moon in the 75th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	74002-10-05 01:12 G		28750012.54	28750012.55	28750012.56	0.2694	0.2670	
Mercury	74005-04-03 16:34 G		28750924.07	28750924.19	28750924.31	0.2626	0.0984	
Mercury	74009-09-27 14:24 G		28752561.99	28752562.10	28752562.22	0.2706	0.1164	
Mercury	74018-04-06 14:53 G		28755675.10	28755675.12	28755675.13	0.2632	0.2606	
Mercury	74022-09-30 12:29 G		28757312.89	28757313.02	28757313.14	0.2701	0.0282	
Venus	74023-09-05 05:17 G		28757652.56	28757652.72	28757652.87	0.2707	0.0380	
Mercury	74025-03-30 02:39 G		28758224.50	28758224.61	28758224.72	0.2624	0.1386	
Venus	74031-09-02 21:36 G		28760572.36	28760572.40	28760572.44	0.2712	0.2573	
Mercury	74035-10-03 09:36 G		28762063.80	28762063.90	28762064.00	0.2695	0.1630	
Mercury	74038-04-02 00:00 G		28762975.37	28762975.50	28762975.63	0.2623	0.0109	
Mercury	74042-09-25 21:07 G		28764613.33	28764613.38	28764613.43	0.2709	0.2451	
Mercury	74051-04-04 21:51 G		28767726.30	28767726.41	28767726.52	0.2628	0.1392	

Mercury	74055-09-28 19:55 G	28769364.21	28769364.33	28769364.45	0.2706	0.0995
Mercury	74058-03-28 10:48 G	28770275.91	28770275.95	28770275.98	0.2626	0.2514
Mercury	74068-09-30 17:46 G	28774115.12	28774115.24	28774115.36	0.2699	0.0580
Mercury	74071-03-31 07:55 G	28775026.71	28775026.83	28775026.95	0.2623	0.1126
Mercury	74081-10-03 14:53 G	28778866.04	28778866.12	28778866.21	0.2696	0.1960
Mercury	74084-04-02 05:31 G	28779777.59	28779777.73	28779777.86	0.2624	0.0237
Mercury	74088-09-26 02:39 G	28781415.55	28781415.61	28781415.68	0.2709	0.2295
Mercury	74097-04-05 03:07 G	28784528.53	28784528.63	28784528.74	0.2629	0.1550
Mercury	74101-09-30 01:12 G	28786166.43	28786166.55	28786166.68	0.2705	0.0575
Mercury	74104-03-29 16:05 G	28787078.09	28787078.17	28787078.24	0.2626	0.2131
Mercury	74114-10-02 23:03 G	28790917.34	28790917.46	28790917.58	0.2698	0.0766
Mercury	74117-04-01 13:12 G	28791828.92	28791829.05	28791829.17	0.2623	0.0951
Mercury	74127-10-05 19:55 G	28795668.26	28795668.33	28795668.41	0.2695	0.2186
Mercury	74130-04-04 10:34 G	28796579.81	28796579.94	28796580.08	0.2625	0.0475
Mercury	74134-09-28 08:10 G	28798217.75	28798217.84	28798217.94	0.2708	0.1841
Mercury	74143-04-07 08:39 G	28801330.77	28801330.86	28801330.95	0.2629	0.1911
Mercury	74147-10-01 06:43 G	28802968.65	28802968.78	28802968.90	0.2703	0.0447
Mercury	74150-03-30 21:07 G	28803880.30	28803880.38	28803880.46	0.2625	0.2027
Venus	74153-03-07 19:12 G	28804953.16	28804953.30	28804953.43	0.2632	0.1225
Mercury	74160-10-03 04:19 G	28807719.57	28807719.68	28807719.79	0.2698	0.1151
Venus	74161-03-05 14:39 G	28807872.97	28807873.11	28807873.24	0.2629	0.1331
Mercury	74163-04-02 18:29 G	28808631.14	28808631.27	28808631.40	0.2623	0.0568
Mercury	74173-10-06 01:12 G	28812470.49	28812470.55	28812470.60	0.2694	0.2387
Mercury	74176-04-04 15:51 G	28813382.04	28813382.16	28813382.29	0.2626	0.0680
Mercury	74180-09-28 13:41 G	28815019.97	28815020.07	28815020.17	0.2708	0.1686
Mercury	74189-04-07 14:10 G	28818133.01	28818133.09	28818133.16	0.2629	0.2144
Mercury	74193-10-01 12:00 G	28819770.88	28819771.00	28819771.13	0.2701	0.0049
Mercury	74196-03-31 02:24 G	28820682.50	28820682.60	28820682.70	0.2624	0.1631
Mercury	74206-10-05 09:36 G	28824521.79	28824521.90	28824522.01	0.2697	0.1282
Mercury	74209-04-03 23:46 G	28825433.36	28825433.49	28825433.62	0.2623	0.0446

Mercury	74222-04-06 21:07 G	28830184.26	28830184.38	28830184.50	0.2626	0.1042
Mercury	74226-09-30 19:12 G	28831822.19	28831822.30	28831822.41	0.2707	0.1287
Mercury	74235-04-09 19:41 G	28834935.27	28834935.32	28834935.36	0.2631	0.2448
Mercury	74239-10-03 17:31 G	28836573.10	28836573.23	28836573.35	0.2701	0.0141
Mercury	74242-04-02 07:41 G	28837484.72	28837484.82	28837484.93	0.2623	0.1514
Mercury	74252-10-05 14:39 G	28841324.01	28841324.11	28841324.21	0.2696	0.1676
Mercury	74255-04-05 05:03 G	28842235.58	28842235.71	28842235.84	0.2624	0.0047
Mercury	74259-09-29 01:55 G	28843873.56	28843873.58	28843873.60	0.2711	0.2672
Venus	74266-09-07 16:48 G	28846409.07	28846409.20	28846409.34	0.2708	0.1261
Mercury	74268-04-07 02:39 G	28846986.49	28846986.61	28846986.73	0.2626	0.1185
Mercury	74272-10-01 00:43 G	28848624.41	28848624.53	28848624.65	0.2705	0.1026
Venus	74274-09-05 05:46 G	28849328.66	28849328.74	28849328.83	0.2702	0.2323
Mercury	74275-03-31 15:51 G	28849536.12	28849536.16	28849536.19	0.2626	0.2515
Mercury	74285-10-03 22:48 G	28853375.32	28853375.45	28853375.57	0.2701	0.0543
Mercury	74288-04-02 13:12 G	28854286.93	28854287.05	28854287.16	0.2623	0.1132
Mercury	74298-10-06 19:55 G	28858126.23	28858126.33	28858126.42	0.2695	0.1781
Mercury	74301-04-06 10:19 G	28859037.79	28859037.93	28859038.06	0.2624	0.0099
Mercury	74305-09-30 07:27 G	28860675.74	28860675.81	28860675.88	0.2710	0.2283
Mercury	74314-04-09 08:10 G	28863788.73	28863788.84	28863788.94	0.2627	0.1619
Mercury	74318-10-03 06:15 G	28865426.64	28865426.76	28865426.88	0.2704	0.0751
Mercury	74321-04-01 21:07 G	28866338.31	28866338.38	28866338.44	0.2624	0.2273
Mercury	74331-10-06 04:05 G	28870177.55	28870177.67	28870177.79	0.2700	0.0708
Mercury	74334-04-04 18:15 G	28871089.14	28871089.26	28871089.39	0.2623	0.0968
Mercury	74344-10-08 01:12 G	28874928.48	28874928.55	28874928.62	0.2695	0.2182
Mercury	74347-04-07 15:36 G	28875840.02	28875840.15	28875840.28	0.2624	0.0458
Mercury	74351-10-01 12:58 G	28877477.96	28877478.04	28877478.12	0.2708	0.2091
Mercury	74360-04-09 13:41 G	28880590.97	28880591.07	28880591.16	0.2629	0.1745
Mercury	74364-10-03 11:46 G	28882228.86	28882228.99	28882229.11	0.2704	0.0406
Mercury	74367-04-03 02:24 G	28883140.51	28883140.60	28883140.68	0.2624	0.1954
Mercury	74377-10-06 09:22 G	28886979.77	28886979.89	28886980.00	0.2698	0.1015

Mercury	74380-04-04 23:31 G	28887891.35	28887891.48	28887891.61	0.2623	0.0684
Mercury	74390-10-09 06:29 G	28891730.71	28891730.77	28891730.83	0.2695	0.2331
Mercury	74393-04-07 20:53 G	28892642.24	28892642.37	28892642.50	0.2624	0.0615
Venus	74396-03-09 21:07 G	28893709.27	28893709.38	28893709.49	0.2620	0.1988
Mercury	74397-10-01 18:29 G	28894280.17	28894280.27	28894280.37	0.2707	0.1631
Venus	74404-03-07 08:53 G	28896628.76	28896628.87	28896628.99	0.2622	0.1897
Mercury	74406-04-10 18:58 G	28897393.22	28897393.29	28897393.36	0.2631	0.2172
Mercury	74410-10-04 17:03 G	28899031.08	28899031.21	28899031.33	0.2703	0.0213
Mercury	74413-04-03 07:41 G	28899942.73	28899942.82	28899942.91	0.2624	0.1788
Mercury	74423-10-07 14:39 G	28903782.00	28903782.11	28903782.22	0.2697	0.1300
Mercury	74426-04-06 04:34 G	28904693.56	28904693.69	28904693.82	0.2623	0.0422
Mercury	74436-10-09 11:31 G	28908532.97	28908532.98	28908533.00	0.2695	0.2658
Mercury	74439-04-09 02:24 G	28909444.47	28909444.60	28909444.72	0.2625	0.0966
Mercury	74443-10-03 00:15 G	28911082.40	28911082.51	28911082.61	0.2707	0.1494
Mercury	74452-04-11 00:29 G	28914195.46	28914195.52	28914195.58	0.2631	0.2318
Mercury	74456-10-04 22:19 G	28915833.30	28915833.43	28915833.56	0.2702	0.0187
Mercury	74459-04-04 12:58 G	28916744.93	28916745.04	28916745.15	0.2624	0.1429
Mercury	74469-10-07 19:55 G	28920584.22	28920584.33	28920584.43	0.2696	0.1505
Mercury	74472-04-06 09:51 G	28921495.78	28921495.91	28921496.05	0.2623	0.0244
Mercury	74485-04-09 07:41 G	28926246.70	28926246.82	28926246.93	0.2627	0.1207
Mercury	74489-10-03 05:31 G	28927884.61	28927884.73	28927884.85	0.2707	0.1035
Mercury	74492-04-01 21:07 G	28928796.33	28928796.38	28928796.42	0.2625	0.2464
Mercury	74502-10-07 03:36 G	28932635.53	28932635.65	28932635.78	0.2700	0.0315
Mercury	74505-04-05 18:00 G	28933547.14	28933547.25	28933547.36	0.2623	0.1316
Venus	74509-09-09 05:46 G	28935164.58	28935164.74	28935164.90	0.2703	0.0780
Mercury	74515-10-10 01:12 G	28937386.46	28937386.55	28937386.64	0.2696	0.1863
Mercury	74518-04-08 15:22 G	28938298.01	28938298.14	28938298.27	0.2623	0.0147
Mercury	74522-10-02 12:15 G	28939935.96	28939936.01	28939936.07	0.2709	0.2411
Mercury	74531-04-11 12:58 G	28943048.93	28943049.04	28943049.15	0.2628	0.1429
Mercury	74535-10-05 11:03 G	28944686.84	28944686.96	28944687.08	0.2706	0.0895

Mercury	74538-04-04 02:24 G	28945598.54	28945598.60	28945598.65	0.2625	0.2349
Mercury	74548-10-07 09:07 G	28949437.75	28949437.88	28949438.00	0.2699	0.0757
Mercury	74551-04-06 23:17 G	28950349.35	28950349.47	28950349.59	0.2622	0.0920
Mercury	74561-10-10 06:15 G	28954188.68	28954188.76	28954188.84	0.2696	0.1996
Mercury	74564-04-08 20:39 G	28955100.23	28955100.36	28955100.49	0.2624	0.0279
Mercury	74568-10-02 17:46 G	28956738.16	28956738.24	28956738.32	0.2709	0.2113
Mercury	74577-04-11 18:15 G	28959851.17	28959851.26	28959851.36	0.2628	0.1798
Mercury	74581-10-05 16:19 G	28961489.06	28961489.18	28961489.31	0.2704	0.0504
Mercury	74584-04-04 07:27 G	28962400.73	28962400.81	28962400.89	0.2625	0.1994
Mercury	74594-10-08 14:24 G	28966239.98	28966240.10	28966240.22	0.2699	0.0871
Mercury	74597-04-07 04:34 G	28967151.57	28967151.69	28967151.82	0.2622	0.0806
Mercury	74607-10-12 11:17 G	28970990.92	28970990.97	28970991.03	0.2695	0.2381
Mercury	74610-04-11 01:55 G	28971902.45	28971902.58	28971902.70	0.2625	0.0681
Mercury	74614-10-04 23:17 G	28973540.38	28973540.47	28973540.56	0.2709	0.1841
Mercury	74623-04-13 23:46 G	28976653.41	28976653.49	28976653.58	0.2628	0.1966
Mercury	74627-10-07 21:51 G	28978291.29	28978291.41	28978291.54	0.2702	0.0263
Mercury	74630-04-06 12:43 G	28979202.94	28979203.03	28979203.12	0.2623	0.1809
Venus	74639-03-12 19:12 G	28982465.18	28982465.30	28982465.43	0.2631	0.1499
Mercury	74640-10-09 19:41 G	28983042.21	28983042.32	28983042.43	0.2698	0.1280
Mercury	74643-04-09 09:51 G	28983953.78	28983953.91	28983954.04	0.2622	0.0416
Venus	74647-03-10 15:36 G	28985385.01	28985385.15	28985385.30	0.2633	0.0757
Mercury	74653-10-12 16:34 G	28987793.14	28987793.19	28987793.24	0.2695	0.2486
Mercury	74656-04-11 07:12 G	28988704.67	28988704.80	28988704.92	0.2626	0.0789
Mercury	74660-10-05 04:48 G	28990342.60	28990342.70	28990342.81	0.2708	0.1474
Mercury	74669-04-14 05:17 G	28993455.67	28993455.72	28993455.77	0.2630	0.2396
Mercury	74673-10-08 03:22 G	28995093.51	28995093.64	28995093.77	0.2701	0.0038
Mercury	74676-04-06 18:00 G	28996005.14	28996005.25	28996005.35	0.2622	0.1554
Mercury	74686-10-11 00:58 G	28999844.43	28999844.54	28999844.64	0.2697	0.1439
Mercury	74689-04-09 15:07 G	29000756.00	29000756.13	29000756.26	0.2623	0.0256
Mercury	74702-04-13 12:29 G	29005506.91	29005507.02	29005507.14	0.2626	0.1209

Mercury	74706-10-07 10:19 G	29007144.82	29007144.93	29007145.05	0.2706	0.1280
Mercury	74715-04-16 10:48 G	29010257.92	29010257.95	29010257.98	0.2632	0.2531
Mercury	74719-10-10 08:39 G	29011895.74	29011895.86	29011895.99	0.2701	0.0363
Mercury	74722-04-08 23:17 G	29012807.35	29012807.47	29012807.58	0.2622	0.1258
Mercury	74732-10-12 06:00 G	29016646.65	29016646.75	29016646.85	0.2696	0.1736
Mercury	74735-04-11 20:10 G	29017558.21	29017558.34	29017558.48	0.2623	0.0073
Mercury	74739-10-05 16:48 G	29019196.18	29019196.20	29019196.23	0.2711	0.2632
Mercury	74748-04-13 18:00 G	29022309.14	29022309.25	29022309.36	0.2626	0.1359
Venus	74752-09-11 14:53 G	29023920.98	29023921.12	29023921.26	0.2712	0.0965
Mercury	74752-10-07 15:51 G	29023947.04	29023947.16	29023947.29	0.2705	0.0826
Mercury	74755-04-07 07:12 G	29024858.74	29024858.80	29024858.87	0.2624	0.2270
Venus	74760-09-09 06:58 G	29026840.67	29026840.79	29026840.90	0.2706	0.1791
Mercury	74765-10-10 13:55 G	29028697.96	29028698.08	29028698.21	0.2701	0.0567
Mercury	74768-04-09 04:34 G	29029609.57	29029609.69	29029609.81	0.2623	0.1073
Mercury	74778-10-13 11:17 G	29033448.89	29033448.97	29033449.05	0.2695	0.2010
Mercury	74781-04-12 01:27 G	29034360.43	29034360.56	29034360.69	0.2623	0.0308
Mercury	74785-10-05 22:34 G	29035998.36	29035998.44	29035998.51	0.2709	0.2167
Mercury	74794-04-14 23:17 G	29039111.37	29039111.47	29039111.57	0.2628	0.1723
Mercury	74798-10-08 21:22 G	29040749.27	29040749.39	29040749.52	0.2704	0.0704
Mercury	74801-04-07 12:43 G	29041660.96	29041661.03	29041661.10	0.2623	0.2162
Mercury	74811-10-11 19:12 G	29045500.18	29045500.30	29045500.42	0.2699	0.0932
Mercury	74814-04-10 09:36 G	29046411.78	29046411.90	29046412.03	0.2623	0.0729
Mercury	74824-10-13 16:34 G	29050251.12	29050251.19	29050251.26	0.2695	0.2236
Mercury	74827-04-13 06:58 G	29051162.66	29051162.79	29051162.91	0.2623	0.0519
Mercury	74831-10-07 04:05 G	29052800.59	29052800.67	29052800.76	0.2708	0.1957
Mercury	74840-04-15 04:34 G	29055913.61	29055913.69	29055913.78	0.2630	0.1971
Mercury	74844-10-09 02:53 G	29057551.49	29057551.62	29057551.74	0.2704	0.0257
Mercury	74847-04-08 18:00 G	29058463.15	29058463.25	29058463.34	0.2624	0.1749
Mercury	74857-10-12 00:29 G	29062302.41	29062302.52	29062302.64	0.2697	0.1053
Mercury	74860-04-10 14:53 G	29063213.99	29063214.12	29063214.25	0.2622	0.0610

Mercury	74870-10-14 21:51 G	29067053.37	29067053.41	29067053.44	0.2696	0.2569
Mercury	74873-04-13 12:15 G	29067964.89	29067965.01	29067965.13	0.2624	0.0873
Mercury	74877-10-07 09:51 G	29069602.80	29069602.91	29069603.01	0.2708	0.1573
Venus	74882-03-14 06:00 G	29071221.70	29071221.75	29071221.81	0.2623	0.2456
Mercury	74886-04-16 10:05 G	29072715.85	29072715.92	29072715.99	0.2630	0.2219
Venus	74890-03-11 18:29 G	29074141.11	29074141.27	29074141.42	0.2620	0.1048
Mercury	74890-10-10 08:10 G	29074353.71	29074353.84	29074353.97	0.2703	0.0114
Mercury	74893-04-08 23:17 G	29075265.37	29075265.47	29075265.57	0.2623	0.1640
Mercury	74903-10-14 05:46 G	29079104.64	29079104.74	29079104.85	0.2697	0.1493
Mercury	74906-04-12 20:10 G	29080016.21	29080016.34	29080016.47	0.2622	0.0206
Mercury	74919-04-15 17:31 G	29084767.11	29084767.23	29084767.35	0.2626	0.1018
Mercury	74923-10-09 15:22 G	29086405.02	29086405.14	29086405.25	0.2707	0.1314
Mercury	74932-04-17 15:36 G	29089518.13	29089518.15	29089518.17	0.2630	0.2575
Mercury	74936-10-11 13:27 G	29091155.94	29091156.06	29091156.19	0.2701	0.0289
Mercury	74939-04-11 04:19 G	29092067.57	29092067.68	29092067.79	0.2623	0.1292
Mercury	74949-10-14 11:17 G	29095906.87	29095906.97	29095907.07	0.2697	0.1608
Mercury	74952-04-13 01:27 G	29096818.43	29096818.56	29096818.69	0.2622	0.0092
Mercury	74956-10-06 21:36 G	29098456.37	29098456.40	29098456.44	0.2710	0.2576
Mercury	74965-04-15 22:48 G	29101569.34	29101569.45	29101569.56	0.2627	0.1432
Mercury	74969-10-09 20:39 G	29103207.25	29103207.36	29103207.48	0.2707	0.1016
Mercury	74972-04-08 12:43 G	29104118.98	29104119.03	29104119.08	0.2625	0.2373
Mercury	74982-10-12 18:58 G	29107958.16	29107958.29	29107958.41	0.2700	0.0500
Mercury	74985-04-11 09:36 G	29108869.78	29108869.90	29108870.01	0.2622	0.1109
Venus	74995-09-13 09:51 G	29112676.76	29112676.91	29112677.07	0.2700	0.0901
Mercury	74995-10-15 16:19 G	29112709.10	29112709.18	29112709.27	0.2697	0.2002
Mercury	74998-04-14 06:43 G	29113620.65	29113620.78	29113620.91	0.2623	0.0304

76TH MILLENNIUM CE

This is a list of transits visible from Moon in the 76th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	75002-10-09 03:22	G	29115258.58	29115258.64	29115258.70	0.2710	0.2401	
Mercury	75011-04-18 04:05	G	29118371.57	29118371.67	29118371.78	0.2627	0.1542	
Mercury	75015-10-12 02:10	G	29120009.47	29120009.59	29120009.71	0.2705	0.0671	
Mercury	75018-04-10 17:46	G	29120921.17	29120921.24	29120921.32	0.2625	0.2102	
Mercury	75028-10-14 00:15	G	29124760.39	29124760.51	29124760.63	0.2699	0.0816	
Mercury	75031-04-13 14:53	G	29125671.99	29125672.12	29125672.24	0.2622	0.0827	
Mercury	75041-10-16 21:36	G	29129511.32	29129511.40	29129511.47	0.2696	0.2157	
Mercury	75044-04-15 12:00	G	29130422.87	29130423.00	29130423.13	0.2624	0.0468	
Mercury	75048-10-09 08:53	G	29132060.78	29132060.87	29132060.96	0.2710	0.1935	
Mercury	75057-04-18 09:36	G	29135173.82	29135173.90	29135173.99	0.2628	0.1986	
Mercury	75061-10-12 07:41	G	29136811.69	29136811.82	29136811.94	0.2703	0.0480	
Mercury	75064-04-10 23:03	G	29137723.38	29137723.46	29137723.55	0.2623	0.1934	
Mercury	75074-10-15 05:31	G	29141562.62	29141562.73	29141562.85	0.2699	0.1094	
Mercury	75077-04-13 20:10	G	29142474.21	29142474.34	29142474.47	0.2622	0.0558	
Mercury	75087-10-18 02:39	G	29146313.57	29146313.61	29146313.66	0.2695	0.2468	
Mercury	75090-04-16 17:03	G	29147225.09	29147225.21	29147225.34	0.2625	0.0763	
Mercury	75094-10-10 14:24	G	29148863.00	29148863.10	29148863.19	0.2709	0.1796	
Mercury	75103-04-20 15:07	G	29151976.06	29151976.13	29151976.21	0.2629	0.2133	
Mercury	75107-10-14 13:12	G	29153613.92	29153614.05	29153614.17	0.2702	0.0101	
Mercury	75110-04-13 04:19	G	29154525.57	29154525.68	29154525.78	0.2622	0.1561	
Mercury	75120-10-16 10:48	G	29158364.84	29158364.95	29158365.06	0.2698	0.1309	
Mercury	75123-04-16 01:12	G	29159276.42	29159276.55	29159276.68	0.2622	0.0363	

Venus	75125-03-16 21:51 G	29159977.33	29159977.41	29159977.49	0.2628	0.2246
Venus	75133-03-14 16:48 G	29162897.05	29162897.20	29162897.34	0.2633	0.0819
Mercury	75136-04-17 22:34 G	29164027.32	29164027.44	29164027.56	0.2625	0.1031
Mercury	75140-10-11 19:55 G	29165665.22	29165665.33	29165665.44	0.2707	0.1333
Mercury	75143-04-11 12:43 G	29166577.01	29166577.03	29166577.04	0.2626	0.2596
Mercury	75149-04-20 20:39 G	29168778.32	29168778.36	29168778.39	0.2631	0.2514
Mercury	75153-10-14 18:29 G	29170416.14	29170416.27	29170416.40	0.2702	0.0102
Mercury	75156-04-13 09:36 G	29171327.79	29171327.90	29171328.01	0.2622	0.1445
Mercury	75166-10-17 16:05 G	29175167.07	29175167.17	29175167.27	0.2697	0.1665
Mercury	75169-04-16 06:29 G	29176078.64	29176078.77	29176078.90	0.2623	0.0056
Mercury	75182-04-19 03:51 G	29180829.55	29180829.66	29180829.78	0.2625	0.1276
Mercury	75186-10-13 01:27 G	29182467.45	29182467.56	29182467.68	0.2705	0.1149
Mercury	75189-04-11 17:46 G	29183379.20	29183379.24	29183379.28	0.2624	0.2474
Mercury	75199-10-15 23:46 G	29187218.37	29187218.49	29187218.62	0.2702	0.0532
Mercury	75202-04-14 14:53 G	29188130.00	29188130.12	29188130.24	0.2622	0.1039
Mercury	75212-10-17 21:22 G	29191969.30	29191969.39	29191969.48	0.2696	0.1794
Mercury	75215-04-17 11:46 G	29192880.86	29192880.99	29192881.12	0.2623	0.0115
Mercury	75219-10-11 07:55 G	29194518.78	29194518.83	29194518.88	0.2710	0.2441
Mercury	75228-04-19 09:22 G	29197631.79	29197631.89	29197631.99	0.2627	0.1626
Mercury	75232-10-13 06:58 G	29199269.67	29199269.79	29199269.92	0.2705	0.0749
Mercury	75235-04-12 23:03 G	29200181.39	29200181.46	29200181.54	0.2623	0.2126
Venus	75238-09-15 10:48 G	29201432.81	29201432.95	29201433.08	0.2712	0.1022
Mercury	75245-10-16 05:17 G	29204020.59	29204020.72	29204020.84	0.2700	0.0659
Venus	75246-09-13 05:03 G	29204352.61	29204352.71	29204352.81	0.2711	0.2014
Mercury	75248-04-14 19:55 G	29204932.21	29204932.33	29204932.46	0.2622	0.0935
Mercury	75258-10-19 02:39 G	29208771.54	29208771.61	29208771.68	0.2696	0.2223
Mercury	75261-04-17 17:03 G	29209683.08	29209683.21	29209683.34	0.2623	0.0530
Mercury	75265-10-11 13:41 G	29211320.99	29211321.07	29211321.14	0.2709	0.2152
Mercury	75274-04-20 14:39 G	29214434.02	29214434.11	29214434.21	0.2629	0.1785
Mercury	75278-10-14 12:29 G	29216071.90	29216072.02	29216072.15	0.2705	0.0524

Mercury	75281-04-13 04:19 G	29216983.60	29216983.68	29216983.77	0.2623	0.1934
Mercury	75291-10-17 10:34 G	29220822.82	29220822.94	29220823.05	0.2698	0.1051
Mercury	75294-04-16 01:12 G	29221734.42	29221734.55	29221734.67	0.2622	0.0591
Mercury	75304-10-20 07:55 G	29225573.77	29225573.83	29225573.89	0.2696	0.2338
Mercury	75307-04-19 22:19 G	29226485.31	29226485.43	29226485.56	0.2623	0.0650
Mercury	75311-10-13 19:12 G	29228123.20	29228123.30	29228123.40	0.2708	0.1739
Mercury	75320-04-21 19:55 G	29231236.26	29231236.33	29231236.40	0.2629	0.2212
Mercury	75324-10-15 18:00 G	29232874.12	29232874.25	29232874.38	0.2704	0.0213
Mercury	75327-04-15 09:36 G	29233785.80	29233785.90	29233786.00	0.2623	0.1653
Mercury	75337-10-18 15:51 G	29237625.05	29237625.16	29237625.27	0.2698	0.1240
Mercury	75340-04-17 06:29 G	29238536.64	29238536.77	29238536.89	0.2621	0.0415
Mercury	75353-04-20 03:36 G	29243287.53	29243287.65	29243287.77	0.2625	0.1038
Mercury	75357-10-14 00:43 G	29244925.43	29244925.53	29244925.64	0.2708	0.1566
Mercury	75366-04-23 01:27 G	29248038.50	29248038.56	29248038.62	0.2630	0.2325
Mercury	75370-10-16 23:17 G	29249676.34	29249676.47	29249676.60	0.2702	0.0115
Mercury	75373-04-15 14:39 G	29250588.00	29250588.11	29250588.22	0.2623	0.1396
Venus	75376-03-16 02:24 G	29251653.44	29251653.60	29251653.77	0.2622	0.0222
Mercury	75383-10-19 21:07 G	29254427.28	29254427.38	29254427.48	0.2698	0.1575
Mercury	75386-04-18 11:46 G	29255338.86	29255338.99	29255339.12	0.2622	0.0105
Mercury	75399-04-21 08:53 G	29260089.75	29260089.87	29260089.99	0.2626	0.1202
Mercury	75403-10-16 06:15 G	29261727.64	29261727.76	29261727.88	0.2708	0.1112
Mercury	75406-04-14 23:17 G	29262639.41	29262639.47	29262639.52	0.2625	0.2377
Mercury	75416-10-18 04:48 G	29266478.57	29266478.70	29266478.82	0.2700	0.0313
Mercury	75419-04-17 19:55 G	29267390.21	29267390.33	29267390.44	0.2622	0.1226
Mercury	75429-10-21 02:24 G	29271229.51	29271229.60	29271229.69	0.2697	0.1823
Mercury	75432-04-19 17:03 G	29272141.07	29272141.21	29272141.34	0.2622	0.0177
Mercury	75436-10-13 12:43 G	29273778.98	29273779.03	29273779.08	0.2711	0.2470
Mercury	75445-04-22 14:10 G	29276891.98	29276892.09	29276892.20	0.2627	0.1532
Mercury	75449-10-16 11:46 G	29278529.87	29278529.99	29278530.11	0.2706	0.0973
Mercury	75452-04-15 04:19 G	29279441.62	29279441.68	29279441.75	0.2625	0.2275

Mercury	75462-10-19 10:05 G	29283280.80	29283280.92	29283281.05	0.2700	0.0730
Mercury	75465-04-18 01:12 G	29284192.43	29284192.55	29284192.67	0.2621	0.0852
Mercury	75475-10-22 07:27 G	29288031.73	29288031.81	29288031.90	0.2697	0.2041
Mercury	75478-04-20 22:05 G	29288943.29	29288943.42	29288943.55	0.2623	0.0363
Venus	75481-09-17 15:51 G	29290189.01	29290189.16	29290189.32	0.2701	0.0968
Mercury	75482-10-14 18:15 G	29290581.19	29290581.26	29290581.33	0.2711	0.2288
Venus	75489-09-15 01:27 G	29293108.53	29293108.56	29293108.58	0.2699	0.2652
Mercury	75491-04-23 19:41 G	29293694.22	29293694.32	29293694.41	0.2627	0.1779
Mercury	75495-10-17 17:17 G	29295332.09	29295332.22	29295332.34	0.2704	0.0513
Mercury	75498-04-16 09:36 G	29296243.81	29296243.90	29296243.99	0.2623	0.1886
Mercury	75508-10-20 15:22 G	29300083.02	29300083.14	29300083.27	0.2700	0.0866
Mercury	75511-04-20 06:29 G	29300994.65	29300994.77	29300994.90	0.2621	0.0727
Mercury	75521-10-23 12:43 G	29304833.98	29304834.03	29304834.09	0.2696	0.2396
Mercury	75524-04-22 03:22 G	29305745.51	29305745.64	29305745.76	0.2624	0.0717
Mercury	75528-10-15 23:46 G	29307383.40	29307383.49	29307383.58	0.2710	0.1878
Mercury	75537-04-25 00:58 G	29310496.46	29310496.54	29310496.62	0.2628	0.2060
Mercury	75541-10-18 22:48 G	29312134.32	29312134.45	29312134.58	0.2703	0.0357
Mercury	75544-04-17 14:39 G	29313046.02	29313046.11	29313046.21	0.2622	0.1772
Mercury	75554-10-21 20:39 G	29316885.25	29316885.36	29316885.47	0.2699	0.1280
Mercury	75557-04-20 11:46 G	29317796.86	29317796.99	29317797.12	0.2622	0.0341
Mercury	75567-10-24 18:00 G	29321636.22	29321636.25	29321636.29	0.2696	0.2539
Mercury	75570-04-23 08:39 G	29322547.74	29322547.86	29322547.98	0.2624	0.0848
Mercury	75574-10-17 05:31 G	29324185.62	29324185.73	29324185.83	0.2708	0.1596
Mercury	75583-04-26 06:29 G	29327298.72	29327298.77	29327298.82	0.2630	0.2405
Mercury	75587-10-20 04:19 G	29328936.55	29328936.68	29328936.80	0.2703	0.0102
Mercury	75590-04-18 20:10 G	29329848.23	29329848.34	29329848.44	0.2622	0.1405
Mercury	75600-10-22 01:55 G	29333687.47	29333687.58	29333687.69	0.2698	0.1400
Mercury	75603-04-21 16:48 G	29334599.07	29334599.20	29334599.33	0.2622	0.0229
Mercury	75616-04-23 13:55 G	29339349.97	29339350.08	29339350.20	0.2624	0.1275
Venus	75619-03-18 19:12 G	29340409.15	29340409.30	29340409.44	0.2629	0.0906

Mercury	75620-10-17 11:03 G	29340987.85	29340987.96	29340988.07	0.2706	0.1312
Mercury	75623-04-17 04:19 G	29341899.65	29341899.68	29341899.72	0.2624	0.2517
Mercury	75629-04-26 12:00 G	29344100.98	29344101.00	29344101.02	0.2631	0.2582
Mercury	75633-10-20 09:36 G	29345738.77	29345738.90	29345739.03	0.2702	0.0257
Mercury	75636-04-19 01:12 G	29346650.44	29346650.55	29346650.67	0.2622	0.1235
Mercury	75646-10-23 07:12 G	29350489.71	29350489.80	29350489.90	0.2697	0.1809
Mercury	75649-04-21 21:51 G	29351401.28	29351401.41	29351401.54	0.2622	0.0152
Mercury	75662-04-24 19:27 G	29356152.20	29356152.31	29356152.42	0.2626	0.1395
Mercury	75666-10-18 16:34 G	29357790.07	29357790.19	29357790.31	0.2706	0.0923
Mercury	75669-04-17 09:36 G	29358701.83	29358701.90	29358701.97	0.2623	0.2199
Mercury	75679-10-21 14:53 G	29362541.00	29362541.12	29362541.25	0.2701	0.0576
Mercury	75682-04-20 06:29 G	29363452.65	29363452.77	29363452.89	0.2622	0.0950
Mercury	75692-10-23 12:43 G	29367291.94	29367292.03	29367292.11	0.2697	0.1978
Mercury	75695-04-23 03:07 G	29368203.50	29368203.63	29368203.76	0.2622	0.0317
Mercury	75699-10-16 22:48 G	29369841.38	29369841.45	29369841.52	0.2710	0.2250
Mercury	75708-04-26 00:43 G	29372954.43	29372954.53	29372954.62	0.2628	0.1803
Mercury	75712-10-19 22:05 G	29374592.29	29374592.42	29374592.54	0.2706	0.0736
Mercury	75715-04-19 14:53 G	29375504.04	29375504.12	29375504.20	0.2623	0.2045
Venus	75724-09-19 07:41 G	29378944.67	29378944.82	29378944.96	0.2709	0.0837
Mercury	75725-10-22 20:10 G	29379343.22	29379343.34	29379343.46	0.2699	0.0880
Mercury	75728-04-21 11:31 G	29380254.85	29380254.98	29380255.10	0.2622	0.0691
Mercury	75738-10-25 18:00 G	29384094.18	29384094.25	29384094.31	0.2697	0.2321
Mercury	75741-04-24 08:39 G	29385005.73	29385005.86	29385005.98	0.2623	0.0646
Mercury	75745-10-18 04:34 G	29386643.61	29386643.69	29386643.77	0.2709	0.2089
Mercury	75754-04-27 06:00 G	29389756.67	29389756.75	29389756.84	0.2629	0.1962
Mercury	75758-10-21 03:22 G	29391394.52	29391394.64	29391394.77	0.2705	0.0320
Mercury	75761-04-19 20:10 G	29392306.24	29392306.34	29392306.44	0.2623	0.1671
Mercury	75771-10-24 01:41 G	29396145.45	29396145.57	29396145.69	0.2698	0.1086
Mercury	75774-04-22 16:48 G	29397057.07	29397057.20	29397057.32	0.2621	0.0518
Mercury	75784-10-25 23:03 G	29400896.42	29400896.46	29400896.50	0.2697	0.2556

Mercury	75787-04-25 13:41 G	29401807.95	29401808.07	29401808.20	0.2624	0.0884
Mercury	75791-10-19 10:05 G	29403445.82	29403445.92	29403446.02	0.2709	0.1614
Mercury	75800-04-28 11:17 G	29406558.92	29406558.97	29406559.03	0.2629	0.2334
Mercury	75804-10-22 08:53 G	29408196.74	29408196.87	29408197.00	0.2703	0.0172
Mercury	75807-04-22 01:12 G	29409108.45	29409108.55	29409108.66	0.2622	0.1566
Mercury	75817-10-25 06:58 G	29412947.69	29412947.79	29412947.90	0.2699	0.1481
Mercury	75820-04-23 22:05 G	29413859.29	29413859.42	29413859.55	0.2621	0.0156
Mercury	75833-04-26 18:58 G	29418610.18	29418610.29	29418610.41	0.2625	0.1103
Mercury	75837-10-20 15:36 G	29420248.04	29420248.15	29420248.26	0.2709	0.1457
Mercury	75840-04-19 09:51 G	29421159.89	29421159.91	29421159.93	0.2625	0.2584
Mercury	75846-04-29 16:48 G	29423361.18	29423361.20	29423361.23	0.2629	0.2556
Mercury	75850-10-23 14:24 G	29424998.97	29424999.10	29424999.23	0.2701	0.0295
Mercury	75853-04-22 06:29 G	29425910.65	29425910.77	29425910.88	0.2621	0.1186
Venus	75862-03-21 07:41 G	29429165.67	29429165.82	29429165.97	0.2628	0.0932
Mercury	75863-10-26 12:15 G	29429749.91	29429750.01	29429750.11	0.2698	0.1621
Mercury	75866-04-25 03:22 G	29430661.51	29430661.64	29430661.77	0.2622	0.0069
Mercury	75879-04-28 00:15 G	29435412.41	29435412.51	29435412.62	0.2626	0.1464
Mercury	75883-10-21 21:07 G	29437050.26	29437050.38	29437050.50	0.2707	0.1039
Mercury	75886-04-20 15:07 G	29437962.06	29437962.13	29437962.19	0.2624	0.2235
Mercury	75896-10-23 19:55 G	29441801.20	29441801.33	29441801.45	0.2701	0.0433
Mercury	75899-04-23 11:31 G	29442712.87	29442712.98	29442713.10	0.2621	0.1069
Mercury	75909-10-27 17:31 G	29446552.14	29446552.23	29446552.31	0.2698	0.2024
Mercury	75912-04-26 08:24 G	29447463.72	29447463.85	29447463.98	0.2623	0.0381
Mercury	75916-10-20 03:22 G	29449101.59	29449101.64	29449101.69	0.2711	0.2479
Mercury	75925-04-29 05:46 G	29452214.64	29452214.74	29452214.84	0.2626	0.1616
Mercury	75929-10-23 02:39 G	29453852.49	29453852.61	29453852.74	0.2705	0.0778
Mercury	75932-04-21 20:10 G	29454764.26	29454764.34	29454764.42	0.2623	0.2050
Mercury	75942-10-26 01:12 G	29458603.43	29458603.55	29458603.67	0.2701	0.0856
Mercury	75945-04-24 16:48 G	29459515.08	29459515.20	29459515.33	0.2621	0.0690
Mercury	75955-10-28 22:34 G	29463354.37	29463354.44	29463354.52	0.2697	0.2142

Mercury	75958-04-27 13:41 G	29464265.94	29464266.07	29464266.19	0.2623	0.0495
Mercury	75962-10-21 08:53 G	29465903.79	29465903.87	29465903.96	0.2710	0.2080
Venus	75967-09-22 18:58 G	29467701.15	29467701.29	29467701.42	0.2705	0.1438
Mercury	75971-04-30 11:03 G	29469016.88	29469016.96	29469017.04	0.2627	0.2042
Venus	75975-09-20 06:44 G	29470620.65	29470620.78	29470620.90	0.2699	0.1788
Mercury	75975-10-24 08:10 G	29470654.72	29470654.84	29470654.97	0.2704	0.0490
Mercury	75978-04-23 01:12 G	29471566.46	29471566.55	29471566.64	0.2622	0.1806
Mercury	75988-10-26 06:29 G	29475405.65	29475405.77	29475405.89	0.2700	0.1026
Mercury	75991-04-25 22:05 G	29476317.29	29476317.42	29476317.55	0.2621	0.0529

77TH MILLENNIUM CE

This is a list of transits visible from Moon in the 77th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	76001-10-29 04:05 G		29480156.63	29480156.67	29480156.70	0.2696	0.2561	
Mercury	76004-04-27 18:58 G		29481068.16	29481068.29	29481068.41	0.2623	0.0890	
Mercury	76008-10-21 14:39 G		29482706.02	29482706.11	29482706.20	0.2709	0.1877	
Mercury	76017-04-30 16:34 G		29485819.12	29485819.19	29485819.26	0.2628	0.2169	
Mercury	76021-10-24 13:41 G		29487456.95	29487457.07	29487457.20	0.2704	0.0150	
Mercury	76024-04-23 06:29 G		29488368.67	29488368.77	29488368.88	0.2621	0.1503	
Mercury	76034-10-27 11:46 G		29492207.88	29492207.99	29492208.10	0.2699	0.1339	
Mercury	76037-04-26 03:08 G		29493119.50	29493119.63	29493119.76	0.2622	0.0249	
Mercury	76050-04-29 00:15 G		29497870.39	29497870.51	29497870.63	0.2624	0.1040	
Mercury	76054-10-22 20:24 G		29499508.24	29499508.35	29499508.46	0.2707	0.1399	

Mercury	76057-04-21 15:08 G	29500420.09	29500420.13	29500420.16	0.2624	0.2499
Mercury	76063-05-01 21:51 G	29502621.39	29502621.41	29502621.43	0.2630	0.2599
Mercury	76067-10-25 19:12 G	29504259.17	29504259.30	29504259.43	0.2703	0.0083
Mercury	76070-04-24 11:46 G	29505170.88	29505170.99	29505171.10	0.2622	0.1323
Mercury	76080-10-27 17:03 G	29509010.11	29509010.21	29509010.31	0.2698	0.1629
Mercury	76083-04-27 08:24 G	29509921.72	29509921.85	29509921.98	0.2622	0.0075
Mercury	76096-04-29 05:32 G	29514672.62	29514672.73	29514672.84	0.2625	0.1393
Mercury	76100-10-24 01:56 G	29516310.47	29516310.58	29516310.70	0.2707	0.1255
Mercury	76103-04-23 20:10 G	29517222.30	29517222.34	29517222.39	0.2623	0.2397
Venus	76105-03-23 00:15 G	29517921.34	29517921.51	29517921.67	0.2624	0.0139
Mercury	76113-10-27 00:29 G	29521061.39	29521061.52	29521061.65	0.2702	0.0481
Mercury	76116-04-25 17:03 G	29521973.09	29521973.21	29521973.33	0.2622	0.0975
Mercury	76126-10-29 22:20 G	29525812.34	29525812.43	29525812.53	0.2697	0.1856
Mercury	76129-04-28 13:41 G	29526723.94	29526724.07	29526724.20	0.2622	0.0228
Mercury	76133-10-22 07:56 G	29528361.80	29528361.83	29528361.87	0.2710	0.2596
Mercury	76142-05-01 10:48 G	29531474.85	29531474.95	29531475.05	0.2627	0.1637
Mercury	76146-10-25 07:27 G	29533112.69	29533112.81	29533112.93	0.2707	0.0775
Mercury	76149-04-24 01:27 G	29534024.48	29534024.56	29534024.64	0.2623	0.1989
Mercury	76159-10-28 05:46 G	29537863.62	29537863.74	29537863.87	0.2700	0.0615
Mercury	76162-04-26 22:05 G	29538775.30	29538775.42	29538775.54	0.2621	0.0865
Mercury	76172-10-30 03:51 G	29542614.58	29542614.66	29542614.73	0.2698	0.2223
Mercury	76175-04-29 18:58 G	29543526.16	29543526.29	29543526.41	0.2622	0.0585
Mercury	76179-10-23 13:41 G	29545164.00	29545164.07	29545164.15	0.2710	0.2205
Mercury	76188-05-01 16:05 G	29548277.08	29548277.17	29548277.26	0.2628	0.1872
Mercury	76192-10-25 12:58 G	29549914.91	29549915.04	29549915.16	0.2706	0.0632
Mercury	76195-04-25 06:44 G	29550826.70	29550826.78	29550826.87	0.2623	0.1877
Mercury	76205-10-29 11:17 G	29554665.85	29554665.97	29554666.09	0.2699	0.1071
Mercury	76208-04-28 03:08 G	29555577.51	29555577.63	29555577.76	0.2621	0.0475
Venus	76210-09-24 07:41 G	29556456.66	29556456.82	29556456.98	0.2705	0.0366
Mercury	76218-11-01 08:53 G	29559416.81	29559416.87	29559416.93	0.2698	0.2366

Mercury	76221-05-01 00:00 G	29560328.38	29560328.50	29560328.63	0.2623	0.0722
Mercury	76225-10-24 19:27 G	29561966.22	29561966.31	29561966.40	0.2709	0.1901
Mercury	76234-05-03 21:22 G	29565079.33	29565079.39	29565079.46	0.2628	0.2228
Mercury	76238-10-27 18:15 G	29566717.14	29566717.26	29566717.39	0.2704	0.0236
Mercury	76241-04-26 11:46 G	29567628.89	29567628.99	29567629.10	0.2622	0.1531
Mercury	76251-10-30 16:48 G	29571468.08	29571468.20	29571468.31	0.2699	0.1199
Mercury	76254-04-29 08:24 G	29572379.73	29572379.85	29572379.98	0.2621	0.0362
Mercury	76267-05-02 05:17 G	29577130.60	29577130.72	29577130.84	0.2624	0.1116
Mercury	76271-10-26 00:58 G	29578768.43	29578768.54	29578768.64	0.2709	0.1609
Mercury	76274-04-24 20:24 G	29579680.35	29579680.35	29579680.36	0.2625	0.2613
Mercury	76280-05-04 02:53 G	29581881.57	29581881.62	29581881.67	0.2628	0.2408
Mercury	76284-10-27 23:46 G	29583519.36	29583519.49	29583519.62	0.2702	0.0060
Mercury	76287-04-27 17:03 G	29584431.10	29584431.21	29584431.32	0.2621	0.1349
Mercury	76297-10-30 22:05 G	29588270.31	29588270.42	29588270.52	0.2699	0.1619
Mercury	76300-04-30 13:41 G	29589181.94	29589182.07	29589182.20	0.2621	0.0028
Mercury	76313-05-03 10:34 G	29593932.82	29593932.94	29593933.05	0.2625	0.1226
Mercury	76317-10-27 06:29 G	29595570.65	29595570.77	29595570.88	0.2708	0.1235
Mercury	76320-04-26 01:41 G	29596482.51	29596482.57	29596482.63	0.2624	0.2322
Mercury	76330-10-30 05:17 G	29600321.59	29600321.72	29600321.85	0.2702	0.0335
Mercury	76333-04-28 22:05 G	29601233.31	29601233.42	29601233.54	0.2620	0.1090
Mercury	76343-11-02 03:08 G	29605072.54	29605072.63	29605072.73	0.2698	0.1787
Mercury	76346-05-01 18:44 G	29605984.15	29605984.28	29605984.41	0.2622	0.0191
Venus	76348-03-25 09:08 G	29606677.73	29606677.88	29606678.02	0.2633	0.0702
Mercury	76350-10-25 12:29 G	29607621.98	29607622.02	29607622.05	0.2712	0.2586
Venus	76356-03-23 03:36 G	29609597.57	29609597.65	29609597.73	0.2630	0.2249
Mercury	76359-05-04 15:51 G	29610735.06	29610735.16	29610735.26	0.2625	0.1649
Mercury	76363-10-28 12:00 G	29612372.88	29612373.00	29612373.12	0.2706	0.1035
Mercury	76366-04-27 06:58 G	29613284.72	29613284.79	29613284.86	0.2623	0.2156
Mercury	76376-10-30 10:48 G	29617123.82	29617123.95	29617124.07	0.2702	0.0652
Mercury	76379-04-30 03:22 G	29618035.52	29618035.64	29618035.76	0.2620	0.0804

Mercury	76389-11-02 08:24 G	29621874.77	29621874.85	29621874.93	0.2697	0.2100
Mercury	76392-05-01 23:46 G	29622786.37	29622786.49	29622786.62	0.2623	0.0477
Mercury	76396-10-25 18:00 G	29624424.20	29624424.25	29624424.31	0.2711	0.2440
Mercury	76405-05-04 21:08 G	29627537.29	29627537.38	29627537.48	0.2626	0.1794
Mercury	76409-10-28 17:32 G	29629175.10	29629175.23	29629175.36	0.2705	0.0567
Mercury	76412-04-27 12:00 G	29630086.91	29630087.00	29630087.09	0.2622	0.1791
Mercury	76422-10-31 16:05 G	29633926.05	29633926.17	29633926.29	0.2701	0.0873
Mercury	76425-04-30 08:39 G	29634837.73	29634837.86	29634837.98	0.2621	0.0607
Mercury	76435-11-03 13:56 G	29638677.02	29638677.08	29638677.13	0.2697	0.2380
Mercury	76438-05-03 05:17 G	29639588.59	29639588.72	29639588.84	0.2623	0.0748
Mercury	76442-10-26 23:46 G	29641226.40	29641226.49	29641226.58	0.2710	0.1950
Mercury	76451-05-06 02:39 G	29644339.54	29644339.61	29644339.68	0.2627	0.2169
Venus	76453-09-25 18:58 G	29645213.17	29645213.29	29645213.40	0.2709	0.1827
Mercury	76455-10-29 23:03 G	29645977.34	29645977.46	29645977.59	0.2705	0.0439
Mercury	76458-04-28 17:17 G	29646889.12	29646889.22	29646889.31	0.2621	0.1683
Venus	76461-09-23 09:51 G	29648132.79	29648132.91	29648133.03	0.2702	0.1790
Mercury	76468-10-31 21:22 G	29650728.28	29650728.39	29650728.50	0.2699	0.1254
Mercury	76471-05-01 13:41 G	29651639.94	29651640.07	29651640.20	0.2621	0.0274
Mercury	76481-11-03 19:12 G	29655479.27	29655479.30	29655479.32	0.2697	0.2622
Mercury	76484-05-03 10:34 G	29656390.82	29656390.94	29656391.06	0.2623	0.0970
Mercury	76488-10-27 05:32 G	29658028.63	29658028.73	29658028.83	0.2708	0.1736
Mercury	76497-05-06 07:56 G	29661141.79	29661141.83	29661141.88	0.2629	0.2422
Mercury	76501-10-31 04:34 G	29662779.56	29662779.69	29662779.82	0.2704	0.0048
Mercury	76504-04-29 22:20 G	29663691.32	29663691.43	29663691.54	0.2621	0.1283
Mercury	76514-11-03 02:39 G	29667530.50	29667530.61	29667530.72	0.2698	0.1392
Mercury	76517-05-02 18:44 G	29668442.15	29668442.28	29668442.41	0.2621	0.0162
Mercury	76530-05-05 15:51 G	29673193.05	29673193.16	29673193.27	0.2624	0.1319
Mercury	76534-10-29 11:03 G	29674830.85	29674830.96	29674831.08	0.2707	0.1338
Mercury	76537-04-28 06:58 G	29675742.74	29675742.79	29675742.85	0.2623	0.2358
Mercury	76547-11-01 10:05 G	29679581.79	29679581.92	29679582.05	0.2703	0.0184

Mercury	76550-05-01 03:36 G	29680493.54	29680493.65	29680493.76	0.2621	0.1172
Mercury	76560-11-03 08:10 G	29684332.74	29684332.84	29684332.93	0.2698	0.1846
Mercury	76563-05-04 00:00 G	29685244.37	29685244.50	29685244.63	0.2621	0.0249
Mercury	76576-05-05 21:08 G	29689995.27	29689995.38	29689995.48	0.2626	0.1467
Mercury	76580-10-29 16:48 G	29691633.08	29691633.20	29691633.31	0.2707	0.1077
Mercury	76583-04-29 12:15 G	29692544.94	29692545.01	29692545.08	0.2623	0.2153
Venus	76591-03-27 08:10 G	29695433.69	29695433.84	29695433.99	0.2621	0.1167
Mercury	76593-11-01 15:22 G	29696384.01	29696384.14	29696384.27	0.2701	0.0586
Mercury	76596-05-01 08:39 G	29697295.74	29697295.86	29697295.98	0.2621	0.0833
Venus	76599-03-24 19:56 G	29698353.31	29698353.33	29698353.36	0.2624	0.2588
Mercury	76606-11-05 13:27 G	29701134.98	29701135.06	29701135.15	0.2698	0.1967
Mercury	76609-05-05 05:17 G	29702046.59	29702046.72	29702046.85	0.2621	0.0368
Mercury	76613-10-28 22:48 G	29703684.39	29703684.45	29703684.51	0.2710	0.2382
Mercury	76622-05-08 02:24 G	29706797.51	29706797.60	29706797.69	0.2627	0.1885
Mercury	76626-10-31 22:20 G	29708435.30	29708435.43	29708435.55	0.2707	0.0754
Mercury	76629-04-30 17:32 G	29709347.14	29709347.23	29709347.31	0.2623	0.1887
Mercury	76639-11-03 20:53 G	29713186.24	29713186.37	29713186.49	0.2700	0.0807
Mercury	76642-05-03 13:41 G	29714097.95	29714098.07	29714098.20	0.2620	0.0652
Mercury	76652-11-05 18:44 G	29717937.22	29717937.28	29717937.34	0.2698	0.2370
Mercury	76655-05-06 10:34 G	29718848.81	29718848.94	29718849.06	0.2622	0.0755
Mercury	76659-10-30 04:20 G	29720486.61	29720486.68	29720486.76	0.2710	0.2203
Mercury	76668-05-08 07:41 G	29723599.74	29723599.82	29723599.90	0.2627	0.1996
Mercury	76672-11-01 03:36 G	29725237.53	29725237.65	29725237.78	0.2705	0.0412
Mercury	76675-05-01 22:34 G	29726149.34	29726149.44	29726149.54	0.2622	0.1621
Mercury	76685-11-04 02:10 G	29729988.48	29729988.59	29729988.71	0.2700	0.1148
Mercury	76688-05-03 18:58 G	29730900.16	29730900.29	29730900.42	0.2620	0.0364
Venus	76696-09-27 11:17 G	29733968.81	29733968.97	29733969.13	0.2700	0.0380
Mercury	76698-11-06 23:46 G	29734739.45	29734739.49	29734739.54	0.2698	0.2541
Mercury	76701-05-07 15:36 G	29735651.03	29735651.15	29735651.27	0.2624	0.0918
Mercury	76705-10-31 09:51 G	29737288.82	29737288.91	29737289.01	0.2710	0.1722

Mercury	76708-04-30 07:12 G	29738200.79	29738200.80	29738200.82	0.2625	0.2590
Mercury	76714-05-10 12:58 G	29740402.00	29740402.04	29740402.09	0.2627	0.2437
Mercury	76718-11-03 09:08 G	29742039.75	29742039.88	29742040.01	0.2703	0.0223
Mercury	76721-05-03 03:36 G	29742951.55	29742951.65	29742951.76	0.2621	0.1453
Mercury	76731-11-06 07:41 G	29746790.71	29746790.82	29746790.93	0.2700	0.1424
Mercury	76734-05-06 00:15 G	29747702.38	29747702.51	29747702.64	0.2621	0.0096
Mercury	76747-05-08 20:53 G	29752453.25	29752453.37	29752453.48	0.2624	0.1222
Mercury	76751-11-01 15:36 G	29754091.05	29754091.15	29754091.26	0.2709	0.1567
Mercury	76754-05-01 12:29 G	29755002.99	29755003.02	29755003.06	0.2624	0.2493
Mercury	76760-05-10 18:29 G	29757204.25	29757204.27	29757204.29	0.2629	0.2584
Mercury	76764-11-03 14:39 G	29758841.98	29758842.11	29758842.24	0.2702	0.0251
Mercury	76767-05-04 08:53 G	29759753.75	29759753.87	29759753.98	0.2620	0.1089
Mercury	76777-11-06 12:44 G	29763592.93	29763593.03	29763593.14	0.2699	0.1649
Mercury	76780-05-06 05:32 G	29764504.60	29764504.73	29764504.85	0.2621	0.0140
Mercury	76793-05-09 02:10 G	29769255.49	29769255.59	29769255.70	0.2624	0.1486
Mercury	76797-11-01 21:22 G	29770893.27	29770893.39	29770893.50	0.2707	0.1085
Mercury	76800-05-01 17:32 G	29771805.16	29771805.23	29771805.31	0.2623	0.2109
Mercury	76810-11-04 20:10 G	29775644.21	29775644.34	29775644.47	0.2702	0.0393
Mercury	76813-05-04 14:10 G	29776555.97	29776556.09	29776556.21	0.2620	0.0970
Mercury	76823-11-07 18:00 G	29780395.17	29780395.25	29780395.34	0.2698	0.2022
Mercury	76826-05-07 10:34 G	29781306.81	29781306.94	29781307.06	0.2622	0.0454
Mercury	76830-10-31 03:08 G	29782944.59	29782944.63	29782944.67	0.2712	0.2546
Venus	76834-03-29 09:08 G	29784189.73	29784189.88	29784190.03	0.2635	0.0668
Mercury	76839-05-10 07:27 G	29786057.72	29786057.81	29786057.91	0.2625	0.1747
Venus	76842-03-27 05:03 G	29787109.59	29787109.71	29787109.83	0.2635	0.1535
Mercury	76843-11-03 02:53 G	29787695.50	29787695.62	29787695.74	0.2705	0.0896
Mercury	76846-05-02 22:48 G	29788607.37	29788607.45	29788607.53	0.2622	0.1987
Mercury	76856-11-05 01:41 G	29792446.44	29792446.57	29792446.69	0.2702	0.0847
Mercury	76859-05-05 19:12 G	29793358.18	29793358.30	29793358.43	0.2620	0.0576
Mercury	76869-11-07 23:32 G	29797197.41	29797197.48	29797197.56	0.2698	0.2169

Mercury	76872-05-07 15:36 G	29798109.03	29798109.15	29798109.28	0.2622	0.0574
Mercury	76876-10-31 08:53 G	29799746.80	29799746.87	29799746.94	0.2710	0.2242
Mercury	76885-05-10 12:58 G	29802859.96	29802860.04	29802860.11	0.2626	0.2084
Mercury	76889-11-03 08:24 G	29804497.72	29804497.85	29804497.98	0.2705	0.0476
Mercury	76892-05-03 03:51 G	29805409.57	29805409.66	29805409.76	0.2621	0.1639
Mercury	76902-11-07 06:58 G	29809248.67	29809248.79	29809248.91	0.2700	0.0975
Mercury	76905-05-07 00:15 G	29810160.39	29810160.51	29810160.64	0.2621	0.0473
Mercury	76915-11-10 04:48 G	29813999.68	29813999.70	29813999.73	0.2698	0.2616
Mercury	76918-05-09 20:53 G	29814911.25	29814911.37	29814911.49	0.2622	0.0989
Mercury	76922-11-02 14:39 G	29816549.02	29816549.11	29816549.20	0.2709	0.1939
Mercury	76931-05-12 18:15 G	29819662.19	29819662.26	29819662.32	0.2628	0.2249
Mercury	76935-11-05 13:56 G	29821299.95	29821300.08	29821300.21	0.2705	0.0252
Mercury	76938-05-05 09:08 G	29822211.78	29822211.88	29822211.99	0.2621	0.1454
Venus	76939-09-30 16:20 G	29822725.06	29822725.18	29822725.31	0.2711	0.1398
Venus	76947-09-28 10:34 G	29825644.86	29825644.94	29825645.02	0.2707	0.2251
Mercury	76948-11-07 12:15 G	29826050.90	29826051.01	29826051.12	0.2699	0.1381
Mercury	76951-05-08 05:17 G	29826962.60	29826962.72	29826962.85	0.2621	0.0141
Mercury	76964-05-10 02:10 G	29831713.48	29831713.59	29831713.71	0.2623	0.1108
Mercury	76968-11-02 20:10 G	29833351.24	29833351.34	29833351.45	0.2708	0.1513
Mercury	76971-05-03 17:46 G	29834263.20	29834263.24	29834263.29	0.2623	0.2410
Mercury	76981-11-05 19:27 G	29838102.18	29838102.31	29838102.44	0.2704	0.0113
Mercury	76984-05-05 14:24 G	29839013.98	29839014.10	29839014.21	0.2621	0.1169
Mercury	76994-11-08 17:46 G	29842853.13	29842853.24	29842853.34	0.2698	0.1583
Mercury	76997-05-08 10:34 G	29843764.81	29843764.94	29843765.07	0.2620	0.0058

78TH MILLENNIUM CE

This is a list of transits visible from Moon in the 78th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	77010-05-12 07:27	G	29848515.70	29848515.81	29848515.91	0.2625	0.1503	
Mercury	77014-11-05 01:56	G	29850153.46	29850153.58	29850153.69	0.2708	0.1330	
Mercury	77017-05-04 23:03	G	29851065.40	29851065.46	29851065.53	0.2622	0.2260	
Mercury	77027-11-08 00:44	G	29854904.40	29854904.53	29854904.66	0.2702	0.0408	
Mercury	77030-05-07 19:27	G	29855816.19	29855816.31	29855816.43	0.2621	0.0916	
Mercury	77040-11-09 23:03	G	29859655.37	29859655.46	29859655.55	0.2699	0.1939	
Mercury	77043-05-10 15:51	G	29860567.03	29860567.16	29860567.29	0.2621	0.0376	
Mercury	77056-05-12 12:44	G	29865317.93	29865318.03	29865318.13	0.2626	0.1668	
Mercury	77060-11-05 07:12	G	29866955.68	29866955.80	29866955.93	0.2708	0.0870	
Mercury	77063-05-06 04:20	G	29867867.59	29867867.68	29867867.77	0.2623	0.1880	
Mercury	77073-11-08 06:15	G	29871706.63	29871706.76	29871706.89	0.2701	0.0615	
Mercury	77076-05-08 00:29	G	29872618.40	29872618.52	29872618.64	0.2620	0.0742	
Venus	77077-03-31 16:05	G	29872946.05	29872946.17	29872946.29	0.2623	0.1844	
Venus	77085-03-29 03:22	G	29875865.54	29875865.64	29875865.73	0.2622	0.2177	
Mercury	77086-11-11 04:20	G	29876457.61	29876457.68	29876457.76	0.2699	0.2195	
Mercury	77089-05-10 21:08	G	29877369.25	29877369.38	29877369.50	0.2622	0.0627	
Mercury	77093-11-03 13:27	G	29879006.99	29879007.06	29879007.13	0.2711	0.2266	
Mercury	77102-05-14 18:00	G	29882120.17	29882120.25	29882120.33	0.2627	0.2010	
Mercury	77106-11-07 12:58	G	29883757.91	29883758.04	29883758.16	0.2706	0.0715	
Mercury	77109-05-07 09:22	G	29884669.80	29884669.89	29884669.99	0.2622	0.1777	
Mercury	77119-11-10 11:46	G	29888508.87	29888508.99	29888509.11	0.2701	0.1049	
Mercury	77122-05-10 05:46	G	29889420.61	29889420.74	29889420.86	0.2620	0.0387	
Mercury	77132-11-12 09:36	G	29893259.84	29893259.90	29893259.95	0.2698	0.2417	
Mercury	77135-05-13 02:10	G	29894171.47	29894171.59	29894171.71	0.2623	0.0836	
Mercury	77139-11-05 18:58	G	29895809.21	29895809.29	29895809.37	0.2711	0.2082	

Mercury	77148-05-14 23:17 G	29898922.41	29898922.47	29898922.54	0.2627	0.2252
Mercury	77152-11-07 18:29 G	29900560.14	29900560.27	29900560.40	0.2704	0.0234
Mercury	77155-05-08 14:24 G	29901472.00	29901472.10	29901472.21	0.2621	0.1401
Mercury	77165-11-10 17:17 G	29905311.10	29905311.22	29905311.33	0.2700	0.1204
Mercury	77168-05-10 10:48 G	29906222.83	29906222.95	29906223.08	0.2620	0.0263
Mercury	77181-05-13 07:27 G	29910973.69	29910973.81	29910973.92	0.2624	0.1189
Venus	77182-10-02 18:00 G	29911481.10	29911481.25	29911481.39	0.2698	0.1394
Mercury	77185-11-06 00:29 G	29912611.42	29912611.52	29912611.63	0.2709	0.1656
Mercury	77188-05-05 23:32 G	29913523.43	29913523.48	29913523.52	0.2624	0.2437
Venus	77190-09-30 03:51 G	29914400.57	29914400.66	29914400.75	0.2698	0.2266
Mercury	77194-05-16 04:48 G	29915724.67	29915724.70	29915724.73	0.2628	0.2546
Mercury	77198-11-09 00:00 G	29917362.37	29917362.50	29917362.63	0.2703	0.0077
Mercury	77201-05-08 19:41 G	29918274.21	29918274.32	29918274.43	0.2620	0.1287
Mercury	77211-11-11 22:20 G	29922113.33	29922113.43	29922113.54	0.2700	0.1632
Mercury	77214-05-11 16:05 G	29923025.04	29923025.17	29923025.29	0.2621	0.0160
Mercury	77227-05-14 12:44 G	29927775.92	29927776.03	29927776.14	0.2624	0.1327
Mercury	77231-11-07 06:15 G	29929413.65	29929413.76	29929413.87	0.2707	0.1365
Mercury	77234-05-07 04:34 G	29930325.63	29930325.69	29930325.75	0.2623	0.2253
Mercury	77244-11-09 05:32 G	29934164.60	29934164.73	29934164.86	0.2703	0.0369
Mercury	77247-05-10 00:44 G	29935076.41	29935076.53	29935076.65	0.2620	0.0919
Mercury	77257-11-12 03:36 G	29938915.56	29938915.65	29938915.75	0.2699	0.1757
Mercury	77260-05-11 21:08 G	29939827.25	29939827.38	29939827.51	0.2621	0.0250
Mercury	77273-05-14 18:00 G	29944578.15	29944578.25	29944578.34	0.2624	0.1746
Mercury	77277-11-07 12:00 G	29946215.88	29946216.00	29946216.12	0.2706	0.1066
Mercury	77280-05-07 09:36 G	29947127.82	29947127.90	29947127.98	0.2622	0.2009
Mercury	77290-11-10 11:03 G	29950966.83	29950966.96	29950967.08	0.2702	0.0569
Mercury	77293-05-10 06:00 G	29951878.63	29951878.75	29951878.87	0.2620	0.0750
Mercury	77303-11-14 09:08 G	29955717.80	29955717.88	29955717.95	0.2698	0.2180
Mercury	77306-05-14 02:10 G	29956629.47	29956629.59	29956629.72	0.2622	0.0620
Mercury	77310-11-06 17:32 G	29958267.19	29958267.23	29958267.28	0.2711	0.2553

Mercury	77319-05-16 23:17 G	29961380.38	29961380.47	29961380.56	0.2625	0.1872
Venus	77320-04-02 10:05 G	29961701.78	29961701.92	29961702.05	0.2633	0.1278
Mercury	77323-11-09 17:32 G	29963018.11	29963018.23	29963018.36	0.2706	0.0666
Mercury	77326-05-09 14:53 G	29963930.02	29963930.12	29963930.21	0.2621	0.1704
Venus	77328-03-31 05:03 G	29964621.58	29964621.71	29964621.84	0.2636	0.1327
Mercury	77336-11-11 16:20 G	29967769.06	29967769.18	29967769.30	0.2701	0.0896
Mercury	77339-05-12 11:03 G	29968680.84	29968680.96	29968681.09	0.2620	0.0466
Mercury	77349-11-14 14:24 G	29972520.04	29972520.10	29972520.16	0.2698	0.2360
Mercury	77352-05-14 07:27 G	29973431.69	29973431.81	29973431.93	0.2622	0.0784
Mercury	77356-11-06 23:32 G	29975069.39	29975069.48	29975069.56	0.2709	0.2041
Mercury	77365-05-17 04:34 G	29978182.63	29978182.69	29978182.75	0.2628	0.2289
Mercury	77369-11-09 23:03 G	29979820.33	29979820.46	29979820.59	0.2706	0.0462
Mercury	77372-05-09 19:56 G	29980732.23	29980732.33	29980732.44	0.2621	0.1539
Mercury	77382-11-12 21:36 G	29984571.29	29984571.40	29984571.52	0.2700	0.1208
Mercury	77385-05-12 16:05 G	29985483.04	29985483.17	29985483.30	0.2620	0.0209
Mercury	77398-05-15 12:44 G	29990233.92	29990234.03	29990234.15	0.2622	0.1131
Mercury	77402-11-09 05:17 G	29991871.62	29991871.72	29991871.81	0.2709	0.1875
Mercury	77405-05-09 04:48 G	29992783.69	29992783.70	29992783.72	0.2623	0.2589
Mercury	77411-05-19 09:51 G	29994984.87	29994984.91	29994984.96	0.2629	0.2447
Mercury	77415-11-12 04:34 G	29996622.56	29996622.69	29996622.82	0.2705	0.0022
Mercury	77418-05-12 01:12 G	29997534.44	29997534.55	29997534.66	0.2621	0.1181
Venus	77425-10-04 13:41 G	30000236.92	30000237.07	30000237.22	0.2709	0.0557
Mercury	77428-11-14 03:08 G	30001373.52	30001373.63	30001373.74	0.2699	0.1432
Mercury	77431-05-14 21:22 G	30002285.26	30002285.39	30002285.52	0.2620	0.0051
Venus	77433-10-02 08:24 G	30003156.78	30003156.85	30003156.93	0.2710	0.2321
Mercury	77444-05-16 18:00 G	30007036.14	30007036.25	30007036.36	0.2624	0.1367
Mercury	77448-11-09 10:48 G	30008673.84	30008673.95	30008674.07	0.2709	0.1374
Mercury	77451-05-10 10:05 G	30009585.85	30009585.92	30009585.98	0.2622	0.2193
Mercury	77461-11-12 10:05 G	30013424.79	30013424.92	30013425.05	0.2703	0.0133
Mercury	77464-05-12 06:15 G	30014336.64	30014336.76	30014336.87	0.2620	0.1071

Mercury	77474-11-15 08:39 G	30018175.76	30018175.86	30018175.95	0.2699	0.1838
Mercury	77477-05-15 02:39 G	30019087.48	30019087.61	30019087.73	0.2620	0.0355
Mercury	77490-05-17 23:17 G	30023838.36	30023838.47	30023838.57	0.2625	0.1594
Mercury	77494-11-10 16:20 G	30025476.07	30025476.18	30025476.30	0.2708	0.1215
Mercury	77497-05-10 15:08 G	30026388.06	30026388.13	30026388.21	0.2622	0.2080
Mercury	77507-11-14 15:36 G	30030227.02	30030227.15	30030227.27	0.2701	0.0605
Mercury	77510-05-14 11:17 G	30031138.85	30031138.97	30031139.09	0.2620	0.0693
Mercury	77520-11-16 13:56 G	30034977.99	30034978.08	30034978.17	0.2699	0.1992
Mercury	77523-05-17 07:41 G	30035889.70	30035889.82	30035889.95	0.2621	0.0479
Mercury	77527-11-09 22:20 G	30037527.39	30037527.43	30037527.47	0.2711	0.2560
Mercury	77536-05-19 04:20 G	30040640.60	30040640.68	30040640.77	0.2626	0.1950
Mercury	77540-11-11 22:05 G	30042278.29	30042278.42	30042278.54	0.2706	0.0783
Mercury	77543-05-12 20:24 G	30043190.25	30043190.35	30043190.44	0.2622	0.1727
Mercury	77553-11-14 21:08 G	30047029.25	30047029.38	30047029.50	0.2701	0.0746
Mercury	77556-05-14 16:20 G	30047941.06	30047941.18	30047941.31	0.2619	0.0585
Venus	77563-04-05 21:51 G	30050458.31	30050458.41	30050458.51	0.2628	0.2050
Mercury	77566-11-17 19:12 G	30051780.24	30051780.30	30051780.35	0.2699	0.2412
Mercury	77569-05-17 12:44 G	30052691.91	30052692.03	30052692.15	0.2622	0.0865
Venus	77571-04-03 11:03 G	30053377.81	30053377.96	30053378.12	0.2625	0.1078
Mercury	77573-11-10 03:51 G	30054329.59	30054329.66	30054329.73	0.2711	0.2276
Mercury	77582-05-20 09:51 G	30057442.83	30057442.91	30057442.98	0.2626	0.2111
Mercury	77586-11-13 03:36 G	30059080.52	30059080.65	30059080.78	0.2704	0.0513
Mercury	77589-05-13 01:27 G	30059992.46	30059992.56	30059992.66	0.2621	0.1547
Mercury	77599-11-16 02:24 G	30063831.48	30063831.60	30063831.72	0.2701	0.1188
Mercury	77602-05-15 21:36 G	30064743.27	30064743.40	30064743.53	0.2619	0.0198
Mercury	77612-11-18 00:29 G	30068582.48	30068582.52	30068582.56	0.2698	0.2538
Mercury	77615-05-18 18:00 G	30069494.13	30069494.25	30069494.36	0.2623	0.0977
Mercury	77619-11-11 09:22 G	30071131.80	30071131.89	30071131.99	0.2710	0.1866
Mercury	77622-05-11 10:20 G	30072043.90	30072043.93	30072043.97	0.2625	0.2507
Mercury	77628-05-20 15:08 G	30074245.10	30074245.13	30074245.16	0.2627	0.2526

Mercury	77632-11-13 09:08 G	30075882.75	30075882.88	30075883.01	0.2703	0.0202
Mercury	77635-05-14 06:29 G	30076794.66	30076794.77	30076794.88	0.2620	0.1295
Mercury	77645-11-16 07:41 G	30080633.71	30080633.82	30080633.94	0.2700	0.1371
Mercury	77648-05-16 02:53 G	30081545.49	30081545.62	30081545.74	0.2620	0.0099
Mercury	77661-05-18 23:03 G	30086296.36	30086296.46	30086296.57	0.2623	0.1381
Mercury	77665-11-11 15:08 G	30087934.03	30087934.13	30087934.24	0.2708	0.1652
Mercury	77668-05-11 15:36 G	30088846.09	30088846.15	30088846.20	0.2624	0.2350
Venus	77668-10-05 23:17 G	30088993.37	30088993.47	30088993.56	0.2700	0.2115
Venus	77676-10-03 10:20 G	30091912.83	30091912.93	30091913.03	0.2695	0.2177
Mercury	77678-11-14 14:39 G	30092684.98	30092685.11	30092685.24	0.2704	0.0164
Mercury	77681-05-14 11:46 G	30093596.87	30093596.99	30093597.10	0.2620	0.1002
Mercury	77691-11-17 13:12 G	30097435.94	30097436.05	30097436.15	0.2699	0.1695
Mercury	77694-05-17 07:56 G	30098347.70	30098347.83	30098347.95	0.2621	0.0262
Mercury	77707-05-21 04:34 G	30103098.58	30103098.69	30103098.79	0.2623	0.1533
Mercury	77711-11-13 20:53 G	30104736.25	30104736.37	30104736.49	0.2707	0.1152
Mercury	77714-05-13 20:39 G	30105648.28	30105648.36	30105648.44	0.2622	0.1985
Mercury	77724-11-15 20:10 G	30109487.21	30109487.34	30109487.47	0.2703	0.0388
Mercury	77727-05-16 16:48 G	30110399.08	30110399.20	30110399.32	0.2620	0.0818
Mercury	77737-11-18 18:29 G	30114238.18	30114238.27	30114238.36	0.2699	0.1999
Mercury	77740-05-18 12:58 G	30115149.91	30115150.04	30115150.16	0.2621	0.0515
Mercury	77744-11-11 02:24 G	30116787.57	30116787.60	30116787.62	0.2712	0.2642
Mercury	77753-05-21 09:51 G	30119900.82	30119900.91	30119901.00	0.2625	0.1898
Mercury	77757-11-14 02:39 G	30121538.48	30121538.61	30121538.73	0.2706	0.1009
Mercury	77760-05-14 01:56 G	30122450.49	30122450.58	30122450.66	0.2621	0.1880
Mercury	77770-11-17 01:27 G	30126289.44	30126289.56	30126289.69	0.2702	0.0805
Mercury	77773-05-16 21:51 G	30127201.29	30127201.41	30127201.54	0.2620	0.0484
Mercury	77783-11-20 00:00 G	30131040.43	30131040.50	30131040.57	0.2699	0.2246
Mercury	77786-05-19 18:15 G	30131952.13	30131952.26	30131952.38	0.2621	0.0724
Mercury	77790-11-12 08:10 G	30133589.78	30133589.84	30133589.90	0.2710	0.2401
Mercury	77799-05-22 15:08 G	30136703.05	30136703.13	30136703.20	0.2627	0.2137

Mercury	77803-11-16 08:10 G	30138340.71	30138340.84	30138340.97	0.2706	0.0509
Venus	77806-04-07 12:58 G	30139213.93	30139214.04	30139214.14	0.2628	0.1941
Mercury	77806-05-16 06:58 G	30139252.69	30139252.79	30139252.89	0.2621	0.1478
Venus	77814-04-05 04:48 G	30142133.58	30142133.70	30142133.82	0.2634	0.1687
Mercury	77816-11-18 06:58 G	30143091.67	30143091.79	30143091.91	0.2700	0.0941
Mercury	77819-05-19 02:53 G	30144003.50	30144003.62	30144003.75	0.2620	0.0367
Mercury	77829-11-21 05:17 G	30147842.69	30147842.72	30147842.75	0.2699	0.2623
Mercury	77832-05-20 23:32 G	30148754.36	30148754.48	30148754.59	0.2621	0.1077
Mercury	77836-11-13 13:56 G	30150391.99	30150392.08	30150392.17	0.2709	0.1994
Mercury	77839-05-14 15:51 G	30151304.14	30151304.16	30151304.18	0.2623	0.2553
Mercury	77845-05-23 20:24 G	30153505.30	30153505.35	30153505.40	0.2628	0.2385
Mercury	77849-11-16 13:41 G	30155142.94	30155143.07	30155143.20	0.2705	0.0354
Mercury	77852-05-16 12:00 G	30156054.90	30156055.00	30156055.11	0.2621	0.1369
Mercury	77862-11-19 12:29 G	30159893.91	30159894.02	30159894.13	0.2700	0.1418
Mercury	77865-05-19 07:56 G	30160805.71	30160805.83	30160805.96	0.2620	0.0082
Mercury	77878-05-22 04:34 G	30165556.58	30165556.69	30165556.80	0.2623	0.1217
Mercury	77882-11-14 19:41 G	30167194.22	30167194.32	30167194.42	0.2709	0.1681
Mercury	77885-05-14 21:08 G	30168106.32	30168106.38	30168106.43	0.2622	0.2330
Mercury	77895-11-17 19:12 G	30171945.16	30171945.30	30171945.43	0.2703	0.0114
Mercury	77898-05-17 17:03 G	30172857.10	30172857.21	30172857.33	0.2620	0.1024
Mercury	77908-11-20 18:00 G	30176696.14	30176696.25	30176696.35	0.2700	0.1556
Mercury	77911-05-21 13:12 G	30177607.92	30177608.05	30177608.18	0.2620	0.0139
Venus	77911-10-09 13:27 G	30177748.91	30177749.06	30177749.21	0.2704	0.0463
Venus	77919-10-07 06:44 G	30180668.69	30180668.78	30180668.87	0.2708	0.2117
Mercury	77924-05-23 09:51 G	30182358.81	30182358.91	30182359.01	0.2624	0.1621
Mercury	77928-11-16 01:12 G	30183996.44	30183996.55	30183996.67	0.2709	0.1372
Mercury	77931-05-17 02:10 G	30184908.52	30184908.59	30184908.67	0.2623	0.2076
Mercury	77941-11-19 00:44 G	30188747.40	30188747.53	30188747.66	0.2702	0.0327
Mercury	77944-05-18 22:05 G	30189659.30	30189659.42	30189659.54	0.2620	0.0846
Mercury	77954-11-21 23:17 G	30193498.38	30193498.47	30193498.55	0.2700	0.1987

Mercury	77957-05-21 18:29 G	30194410.14	30194410.27	30194410.39	0.2620	0.0530
Mercury	77970-05-24 14:53 G	30199161.03	30199161.12	30199161.22	0.2625	0.1729
Mercury	77974-11-17 06:58 G	30200798.66	30200798.79	30200798.91	0.2707	0.0991
Mercury	77977-05-17 07:27 G	30201710.72	30201710.81	30201710.90	0.2622	0.1805
Mercury	77987-11-20 06:15 G	30205549.63	30205549.76	30205549.88	0.2702	0.0657
Mercury	77990-05-20 03:22 G	30206461.51	30206461.64	30206461.76	0.2619	0.0578
Mercury	78000-11-22 04:34 G	30210300.61	30210300.69	30210300.76	0.2699	0.2164

79TH MILLENNIUM CE

This is a list of transits visible from Moon in the 79th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	78003-05-22 23:32 G		30211212.36	30211212.48	30211212.60	0.2622	0.0691	
Mercury	78007-11-15 12:29 G		30212849.96	30212850.02	30212850.08	0.2712	0.2391	
Mercury	78016-05-24 20:10 G		30215963.27	30215963.34	30215963.41	0.2625	0.2161	
Mercury	78020-11-17 12:29 G		30217600.89	30217601.02	30217601.15	0.2705	0.0773	
Mercury	78023-05-18 12:29 G		30218512.92	30218513.02	30218513.11	0.2621	0.1640	
Mercury	78033-11-20 11:46 G		30222351.86	30222351.99	30222352.11	0.2702	0.0982	
Mercury	78036-05-20 08:24 G		30223263.73	30223263.85	30223263.98	0.2619	0.0311	
Mercury	78046-11-23 09:51 G		30227102.86	30227102.91	30227102.95	0.2699	0.2494	
Venus	78049-04-08 23:17 G		30227970.43	30227970.47	30227970.52	0.2635	0.2504	
Mercury	78049-05-23 04:34 G		30228014.58	30228014.69	30228014.81	0.2622	0.0982	
Mercury	78053-11-15 18:15 G		30229652.19	30229652.26	30229652.33	0.2711	0.2233	
Venus	78057-04-06 16:34 G		30230890.03	30230890.19	30230890.35	0.2631	0.0060	

Mercury	78062-05-26 01:41 G	30232765.51	30232765.57	30232765.62	0.2626	0.2309
Mercury	78066-11-18 18:00 G	30234403.12	30234403.25	30234403.39	0.2704	0.0298
Mercury	78069-05-18 17:32 G	30235315.12	30235315.23	30235315.33	0.2620	0.1284
Mercury	78079-11-21 17:03 G	30239154.09	30239154.21	30239154.33	0.2701	0.1214
Mercury	78082-05-21 13:41 G	30240065.94	30240066.07	30240066.19	0.2620	0.0123
Mercury	78095-05-24 09:51 G	30244816.80	30244816.91	30244817.02	0.2623	0.1246
Mercury	78099-11-17 00:00 G	30246454.40	30246454.50	30246454.60	0.2709	0.1731
Mercury	78102-05-18 02:39 G	30247366.55	30247366.61	30247366.66	0.2624	0.2290
Mercury	78112-11-19 23:46 G	30251205.36	30251205.49	30251205.62	0.2704	0.0144
Mercury	78115-05-20 22:34 G	30252117.33	30252117.44	30252117.56	0.2619	0.1169
Mercury	78125-11-22 22:20 G	30255956.33	30255956.43	30255956.54	0.2700	0.1610
Mercury	78128-05-22 18:44 G	30256868.15	30256868.28	30256868.40	0.2620	0.0242
Mercury	78141-05-25 15:08 G	30261619.02	30261619.13	30261619.23	0.2623	0.1483
Mercury	78145-11-18 05:46 G	30263256.63	30263256.74	30263256.85	0.2707	0.1510
Mercury	78148-05-18 07:41 G	30264168.75	30264168.82	30264168.89	0.2622	0.2168
Venus	78154-10-11 01:41 G	30266505.46	30266505.57	30266505.68	0.2703	0.1915
Mercury	78158-11-21 05:17 G	30268007.58	30268007.72	30268007.85	0.2704	0.0357
Mercury	78161-05-21 03:51 G	30268919.54	30268919.66	30268919.78	0.2620	0.0776
Venus	78162-10-08 15:36 G	30269425.04	30269425.15	30269425.26	0.2697	0.1981
Mercury	78171-11-24 03:51 G	30272758.56	30272758.66	30272758.76	0.2699	0.1756
Mercury	78174-05-23 23:46 G	30273670.36	30273670.49	30273670.61	0.2621	0.0353
Mercury	78187-05-26 20:24 G	30278421.26	30278421.35	30278421.44	0.2624	0.1824
Mercury	78191-11-19 11:17 G	30280058.85	30280058.97	30280059.10	0.2707	0.1087
Mercury	78194-05-19 12:44 G	30280970.94	30280971.03	30280971.12	0.2621	0.1832
Mercury	78204-11-22 10:34 G	30284809.81	30284809.94	30284810.07	0.2703	0.0494
Mercury	78207-05-23 08:53 G	30285721.75	30285721.87	30285721.99	0.2620	0.0660
Mercury	78217-11-25 09:08 G	30289560.81	30289560.88	30289560.96	0.2699	0.2229
Mercury	78220-05-25 04:48 G	30290472.58	30290472.70	30290472.82	0.2620	0.0756
Mercury	78224-11-17 16:48 G	30292110.18	30292110.20	30292110.22	0.2711	0.2649
Mercury	78233-05-28 01:27 G	30295223.48	30295223.56	30295223.65	0.2626	0.1987

Mercury	78237-11-20 17:03 G	30296861.08	30296861.21	30296861.33	0.2707	0.0820
Mercury	78240-05-20 18:00 G	30297773.15	30297773.25	30297773.35	0.2621	0.1631
Mercury	78250-11-23 16:05 G	30301612.04	30301612.17	30301612.29	0.2701	0.0911
Mercury	78253-05-23 13:56 G	30302523.95	30302524.08	30302524.20	0.2620	0.0335
Mercury	78263-11-26 14:39 G	30306363.05	30306363.11	30306363.17	0.2699	0.2366
Mercury	78266-05-26 10:05 G	30307274.80	30307274.92	30307275.04	0.2621	0.0872
Mercury	78270-11-18 22:34 G	30308912.36	30308912.44	30308912.52	0.2710	0.2182
Mercury	78273-05-19 02:53 G	30309824.61	30309824.62	30309824.64	0.2623	0.2588
Mercury	78279-05-29 06:44 G	30312025.74	30312025.78	30312025.83	0.2627	0.2403
Mercury	78283-11-21 22:34 G	30313663.31	30313663.44	30313663.57	0.2706	0.0487
Mercury	78286-05-21 23:03 G	30314575.36	30314575.46	30314575.57	0.2621	0.1356
Venus	78292-04-10 19:12 G	30316726.21	30316726.30	30316726.39	0.2624	0.2235
Mercury	78296-11-23 21:36 G	30318414.28	30318414.40	30318414.52	0.2700	0.1139
Mercury	78299-05-24 18:58 G	30319326.16	30319326.29	30319326.42	0.2619	0.0140
Venus	78300-04-09 07:12 G	30319645.67	30319645.80	30319645.94	0.2629	0.1471
Mercury	78312-05-27 15:22 G	30324077.02	30324077.14	30324077.25	0.2622	0.1271
Mercury	78316-11-20 04:20 G	30325714.59	30325714.68	30325714.77	0.2710	0.1988
Mercury	78319-05-21 08:10 G	30326626.80	30326626.84	30326626.88	0.2622	0.2444
Mercury	78325-05-30 12:00 G	30328827.97	30328828.00	30328828.04	0.2627	0.2519
Mercury	78329-11-23 04:05 G	30330465.53	30330465.67	30330465.80	0.2704	0.0146
Mercury	78332-05-23 04:05 G	30331377.56	30331377.67	30331377.79	0.2620	0.1104
Mercury	78342-11-26 03:08 G	30335216.52	30335216.63	30335216.74	0.2700	0.1496
Mercury	78345-05-26 00:00 G	30336128.38	30336128.50	30336128.63	0.2619	0.0177
Mercury	78358-05-28 20:24 G	30340879.25	30340879.35	30340879.46	0.2624	0.1434
Mercury	78362-11-21 10:05 G	30342516.81	30342516.92	30342517.03	0.2709	0.1488
Mercury	78365-05-21 13:12 G	30343428.98	30343429.05	30343429.13	0.2622	0.2065
Mercury	78375-11-24 09:36 G	30347267.77	30347267.90	30347268.03	0.2703	0.0092
Mercury	78378-05-24 09:08 G	30348179.76	30348179.88	30348180.00	0.2619	0.0932
Mercury	78388-11-26 08:24 G	30352018.76	30352018.85	30352018.95	0.2700	0.1792
Mercury	78391-05-27 05:17 G	30352930.59	30352930.72	30352930.84	0.2620	0.0413

Venus	78397-10-12 16:20 G	30355261.04	30355261.18	30355261.33	0.2698	0.1130
Mercury	78404-05-29 01:41 G	30357681.47	30357681.57	30357681.66	0.2624	0.1753
Venus	78405-10-10 06:58 G	30358180.71	30358180.79	30358180.87	0.2703	0.2266
Mercury	78408-11-21 15:36 G	30359319.04	30359319.15	30359319.27	0.2708	0.1327
Mercury	78411-05-22 18:29 G	30360231.19	30360231.27	30360231.35	0.2622	0.1956
Mercury	78421-11-24 15:08 G	30364070.00	30364070.13	30364070.26	0.2702	0.0562
Mercury	78424-05-24 14:10 G	30364981.97	30364982.09	30364982.21	0.2619	0.0576
Mercury	78434-11-27 13:41 G	30368820.99	30368821.07	30368821.16	0.2700	0.2029
Mercury	78437-05-27 10:20 G	30369732.81	30369732.93	30369733.05	0.2621	0.0619
Mercury	78450-05-30 06:58 G	30374483.71	30374483.79	30374483.87	0.2624	0.2003
Mercury	78454-11-22 21:08 G	30376121.26	30376121.38	30376121.51	0.2706	0.0836
Mercury	78457-05-22 23:32 G	30377033.38	30377033.48	30377033.58	0.2621	0.1581
Mercury	78467-11-25 20:39 G	30380872.24	30380872.36	30380872.49	0.2702	0.0720
Mercury	78470-05-25 19:27 G	30381784.19	30381784.31	30381784.43	0.2619	0.0450
Mercury	78480-11-27 19:12 G	30385623.24	30385623.30	30385623.35	0.2699	0.2423
Mercury	78483-05-28 15:22 G	30386535.02	30386535.14	30386535.26	0.2622	0.0962
Mercury	78487-11-21 02:39 G	30388172.55	30388172.61	30388172.68	0.2711	0.2353
Mercury	78490-05-21 08:39 G	30389084.86	30389084.86	30389084.87	0.2625	0.2615
Mercury	78496-05-30 12:15 G	30391285.95	30391286.01	30391286.07	0.2625	0.2274
Mercury	78500-11-24 02:53 G	30392923.49	30392923.62	30392923.75	0.2705	0.0640
Mercury	78503-05-25 04:34 G	30393835.58	30393835.69	30393835.79	0.2620	0.1464
Mercury	78513-11-27 02:10 G	30397674.47	30397674.59	30397674.71	0.2702	0.1177
Mercury	78516-05-27 00:29 G	30398586.39	30398586.52	30398586.65	0.2619	0.0063
Mercury	78526-11-30 00:29 G	30402425.49	30402425.52	30402425.56	0.2699	0.2577
Mercury	78529-05-29 20:39 G	30403337.24	30403337.36	30403337.47	0.2622	0.1094
Mercury	78533-11-22 08:24 G	30404974.77	30404974.85	30404974.94	0.2710	0.2036
Mercury	78536-05-22 13:41 G	30405887.03	30405887.07	30405887.12	0.2624	0.2430
Mercury	78542-06-01 17:32 G	30408088.22	30408088.23	30408088.24	0.2627	0.2609
Venus	78543-04-11 18:00 G	30408402.10	30408402.25	30408402.41	0.2637	0.0067
Mercury	78546-11-25 08:39 G	30409725.73	30409725.86	30409725.99	0.2705	0.0193

Mercury	78549-05-25 09:36 G	30410637.79	30410637.90	30410638.01	0.2619	0.1107
Mercury	78559-11-28 07:27 G	30414476.70	30414476.81	30414476.93	0.2700	0.1320
Mercury	78562-05-28 05:32 G	30415388.60	30415388.73	30415388.86	0.2620	0.0055
Mercury	78575-05-31 01:41 G	30420139.47	30420139.57	30420139.68	0.2622	0.1511
Mercury	78579-11-23 14:10 G	30421776.99	30421777.09	30421777.20	0.2708	0.1727
Mercury	78582-05-23 18:58 G	30422689.22	30422689.29	30422689.35	0.2622	0.2181
Mercury	78592-11-25 14:10 G	30426527.96	30426528.09	30426528.22	0.2704	0.0052
Mercury	78595-05-26 14:53 G	30427440.00	30427440.12	30427440.23	0.2619	0.0931
Mercury	78605-11-29 12:58 G	30431278.94	30431279.04	30431279.14	0.2700	0.1747
Mercury	78608-05-29 10:34 G	30432190.82	30432190.94	30432191.07	0.2620	0.0406
Mercury	78621-06-01 07:12 G	30436941.70	30436941.80	30436941.89	0.2623	0.1636
Mercury	78625-11-24 19:56 G	30438579.22	30438579.33	30438579.45	0.2707	0.1282
Mercury	78628-05-25 00:00 G	30439491.41	30439491.50	30439491.58	0.2621	0.1878
Mercury	78638-11-27 19:41 G	30443330.18	30443330.32	30443330.45	0.2703	0.0394
Venus	78640-10-15 01:12 G	30444017.42	30444017.55	30444017.67	0.2706	0.1414
Mercury	78641-05-27 19:56 G	30444242.21	30444242.33	30444242.45	0.2619	0.0643
Venus	78648-10-12 18:29 G	30446937.14	30446937.27	30446937.41	0.2701	0.1371
Mercury	78651-11-30 18:29 G	30448081.18	30448081.27	30448081.36	0.2699	0.1958
Mercury	78654-05-30 15:51 G	30448993.03	30448993.16	30448993.28	0.2620	0.0583
Mercury	78667-06-02 12:15 G	30453743.93	30453744.01	30453744.09	0.2625	0.2039
Mercury	78671-11-26 01:41 G	30455381.45	30455381.57	30455381.69	0.2707	0.1074
Mercury	78674-05-26 05:03 G	30456293.62	30456293.71	30456293.81	0.2620	0.1720
Mercury	78684-11-28 00:58 G	30460132.41	30460132.54	30460132.67	0.2702	0.0726
Mercury	78687-05-29 00:58 G	30461044.41	30461044.54	30461044.66	0.2619	0.0407
Mercury	78697-11-30 23:46 G	30464883.43	30464883.49	30464883.56	0.2700	0.2326
Mercury	78700-05-31 20:53 G	30465795.26	30465795.37	30465795.49	0.2620	0.0914
Mercury	78704-11-24 07:12 G	30467432.76	30467432.80	30467432.83	0.2710	0.2578
Mercury	78713-06-03 17:32 G	30470546.16	30470546.23	30470546.30	0.2626	0.2203
Mercury	78717-11-27 07:27 G	30472183.68	30472183.81	30472183.94	0.2707	0.0602
Mercury	78720-05-27 10:05 G	30473095.82	30473095.92	30473096.03	0.2621	0.1360

Mercury	78730-11-30 06:29 G	30476934.65	30476934.77	30476934.90	0.2701	0.0955
Mercury	78733-05-30 06:00 G	30477846.62	30477846.75	30477846.87	0.2619	0.0222
Mercury	78743-12-03 05:17 G	30481685.68	30481685.72	30481685.75	0.2700	0.2607
Mercury	78746-06-02 02:10 G	30482597.48	30482597.59	30482597.70	0.2621	0.1146
Mercury	78750-11-25 12:58 G	30484234.95	30484235.04	30484235.12	0.2710	0.2063
Mercury	78753-05-25 19:27 G	30485147.26	30485147.31	30485147.36	0.2623	0.2371
Mercury	78759-06-04 22:48 G	30487348.42	30487348.45	30487348.47	0.2627	0.2558
Mercury	78763-11-28 12:58 G	30488985.90	30488986.04	30488986.17	0.2705	0.0447
Mercury	78766-05-28 15:22 G	30489898.03	30489898.14	30489898.24	0.2620	0.1246
Mercury	78776-11-30 12:00 G	30493736.89	30493737.00	30493737.12	0.2701	0.1398
Mercury	78779-05-31 11:03 G	30494648.83	30494648.96	30494649.09	0.2619	0.0143
Venus	78786-04-13 12:29 G	30497157.85	30497158.02	30497158.19	0.2627	0.0405
Mercury	78792-06-02 07:12 G	30499399.69	30499399.80	30499399.91	0.2623	0.1365
Mercury	78796-11-25 18:29 G	30501037.18	30501037.27	30501037.37	0.2710	0.1871
Mercury	78799-05-27 00:29 G	30501949.46	30501949.52	30501949.58	0.2623	0.2244
Mercury	78809-11-28 18:29 G	30505788.13	30505788.27	30505788.40	0.2703	0.0087
Mercury	78812-05-28 20:10 G	30506700.23	30506700.34	30506700.46	0.2619	0.0875
Mercury	78822-12-01 17:32 G	30510539.12	30510539.23	30510539.34	0.2701	0.1559
Mercury	78825-05-31 16:20 G	30511451.05	30511451.18	30511451.30	0.2619	0.0285
Mercury	78838-06-03 12:15 G	30516201.92	30516202.01	30516202.11	0.2624	0.1717
Mercury	78842-11-27 00:15 G	30517839.40	30517839.51	30517839.62	0.2709	0.1421
Mercury	78845-05-27 05:32 G	30518751.65	30518751.73	30518751.82	0.2622	0.1892
Mercury	78855-11-30 00:00 G	30522590.37	30522590.50	30522590.63	0.2703	0.0224
Mercury	78858-05-30 01:27 G	30523502.44	30523502.56	30523502.68	0.2619	0.0760
Mercury	78868-12-01 22:48 G	30527341.37	30527341.45	30527341.54	0.2700	0.2001
Mercury	78871-06-01 21:22 G	30528253.26	30528253.39	30528253.51	0.2620	0.0666
Venus	78883-10-16 23:17 G	30532773.35	30532773.47	30532773.60	0.2694	0.1757
Mercury	78884-06-03 17:32 G	30533004.15	30533004.23	30533004.32	0.2624	0.1866
Mercury	78888-11-27 06:00 G	30534641.63	30534641.75	30534641.87	0.2707	0.1126
Mercury	78891-05-28 10:34 G	30535553.85	30535553.94	30535554.04	0.2621	0.1718

Venus	78891-10-14 10:34 G	30535692.88	30535692.94	30535693.00	0.2695	0.2500
Mercury	78901-12-01 05:32 G	30539392.61	30539392.73	30539392.86	0.2703	0.0689
Mercury	78904-05-31 06:29 G	30540304.65	30540304.77	30540304.90	0.2619	0.0379
Mercury	78914-12-04 04:20 G	30544143.60	30544143.68	30544143.76	0.2700	0.2144
Mercury	78917-06-03 02:24 G	30545055.48	30545055.60	30545055.72	0.2621	0.0779
Mercury	78921-11-26 11:17 G	30546692.93	30546692.97	30546693.00	0.2712	0.2576
Mercury	78930-06-05 22:48 G	30549806.39	30549806.45	30549806.51	0.2624	0.2282
Mercury	78934-11-29 11:32 G	30551443.86	30551443.98	30551444.11	0.2705	0.0811
Mercury	78937-05-29 15:36 G	30552356.05	30552356.15	30552356.26	0.2620	0.1467
Mercury	78947-12-02 11:03 G	30556194.84	30556194.96	30556195.09	0.2702	0.0893
Mercury	78950-06-01 11:32 G	30557106.86	30557106.98	30557107.11	0.2619	0.0225
Mercury	78960-12-04 09:51 G	30560945.87	30560945.91	30560945.94	0.2699	0.2593
Mercury	78963-06-04 07:27 G	30561857.70	30561857.81	30561857.92	0.2622	0.1158
Mercury	78967-11-27 17:03 G	30563495.14	30563495.21	30563495.27	0.2710	0.2355
Mercury	78970-05-28 00:58 G	30564407.51	30564407.54	30564407.57	0.2624	0.2514
Mercury	78976-06-06 04:20 G	30566608.63	30566608.68	30566608.72	0.2626	0.2424
Mercury	78980-11-29 17:17 G	30568246.09	30568246.22	30568246.35	0.2705	0.0398
Mercury	78983-05-30 20:53 G	30569158.26	30569158.37	30569158.48	0.2619	0.1171
Mercury	78993-12-02 16:34 G	30572997.07	30572997.19	30572997.30	0.2701	0.1236
Mercury	78996-06-01 16:34 G	30573909.07	30573909.19	30573909.32	0.2619	0.0071

80TH MILLENNIUM CE

This is a list of transits visible from Moon in the 80th millennium CE.

PLANET	MAX- TRANSIT	C	START	MAX	END	SUNRAD	DEPTH	S
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TIME

Mercury	79009-06-05 12:44 G	30578659.92	30578660.03	30578660.14	0.2621	0.1319
Mercury	79013-11-28 22:48 G	30580297.35	30580297.45	30580297.55	0.2708	0.1825
Mercury	79016-05-29 06:00 G	30581209.68	30581209.75	30581209.82	0.2622	0.2151
Mercury	79026-12-01 23:03 G	30585048.32	30585048.46	30585048.59	0.2705	0.0195
Venus	79029-04-15 17:32 G	30585914.08	30585914.23	30585914.39	0.2640	0.0292
Mercury	79029-06-01 01:56 G	30585960.47	30585960.58	30585960.70	0.2619	0.0995
Mercury	79039-12-04 21:51 G	30589799.31	30589799.41	30589799.52	0.2700	0.1569
Mercury	79042-06-03 21:36 G	30590711.27	30590711.40	30590711.52	0.2620	0.0324
Mercury	79055-06-06 18:00 G	30595462.15	30595462.25	30595462.34	0.2622	0.1674
Mercury	79059-11-30 04:34 G	30597099.59	30597099.69	30597099.80	0.2708	0.1657
Mercury	79062-05-30 11:03 G	30598011.89	30598011.96	30598012.04	0.2621	0.2048
Mercury	79072-12-02 04:20 G	30601850.55	30601850.68	30601850.82	0.2704	0.0293
Mercury	79075-06-02 06:58 G	30602762.67	30602762.79	30602762.91	0.2619	0.0652
Mercury	79085-12-05 03:36 G	30606601.55	30606601.65	30606601.74	0.2700	0.1813
Mercury	79088-06-04 02:39 G	30607513.49	30607513.61	30607513.74	0.2619	0.0520
Mercury	79101-06-07 23:03 G	30612264.38	30612264.46	30612264.55	0.2624	0.1909
Mercury	79105-12-01 10:20 G	30613901.81	30613901.93	30613902.05	0.2708	0.1131
Mercury	79108-05-31 16:20 G	30614814.08	30614814.18	30614814.28	0.2620	0.1645
Mercury	79118-12-04 09:51 G	30618652.78	30618652.91	30618653.04	0.2702	0.0435
Mercury	79121-06-03 12:00 G	30619564.87	30619565.00	30619565.12	0.2619	0.0539
Venus	79126-10-19 23:03 G	30621529.34	30621529.46	30621529.59	0.2706	0.1434
Mercury	79131-12-07 08:53 G	30623403.80	30623403.87	30623403.95	0.2700	0.2231
Mercury	79134-06-06 07:56 G	30624315.71	30624315.83	30624315.95	0.2620	0.0872
Venus	79134-10-17 18:29 G	30624449.14	30624449.27	30624449.41	0.2705	0.1194
Mercury	79147-06-09 04:20 G	30629066.61	30629066.68	30629066.75	0.2626	0.2148
Mercury	79151-12-02 15:51 G	30630704.04	30630704.16	30630704.29	0.2707	0.0963
Mercury	79154-06-01 21:22 G	30631616.29	30631616.39	30631616.49	0.2621	0.1531
Mercury	79164-12-04 15:22 G	30635455.02	30635455.14	30635455.27	0.2701	0.0930
Mercury	79167-06-04 17:03 G	30636367.08	30636367.21	30636367.33	0.2619	0.0171

Mercury	79177-12-07 14:24 G	30640206.04	30640206.10	30640206.16	0.2700	0.2395
Mercury	79180-06-06 12:58 G	30641117.93	30641118.04	30641118.16	0.2621	0.1021
Mercury	79184-11-29 21:08 G	30642755.32	30642755.38	30642755.45	0.2710	0.2378
Mercury	79187-05-31 06:44 G	30643667.74	30643667.78	30643667.82	0.2623	0.2483
Mercury	79193-06-09 09:22 G	30645868.86	30645868.89	30645868.93	0.2626	0.2497
Mercury	79197-12-02 21:36 G	30647506.26	30647506.40	30647506.53	0.2705	0.0518
Mercury	79200-06-02 02:24 G	30648418.49	30648418.60	30648418.71	0.2620	0.1179
Mercury	79210-12-05 21:08 G	30652257.25	30652257.38	30652257.50	0.2701	0.1083
Mercury	79213-06-04 22:05 G	30653169.30	30653169.42	30653169.55	0.2619	0.0049
Mercury	79226-06-07 18:15 G	30657920.15	30657920.26	30657920.36	0.2622	0.1413
Mercury	79230-12-01 02:53 G	30659557.54	30659557.62	30659557.71	0.2710	0.2070
Mercury	79233-05-31 11:46 G	30660469.93	30660469.99	30660470.05	0.2623	0.2246
Mercury	79243-12-04 03:08 G	30664308.50	30664308.63	30664308.76	0.2704	0.0234
Mercury	79246-06-03 07:27 G	30665220.69	30665220.81	30665220.92	0.2619	0.1007
Mercury	79256-12-06 02:24 G	30669059.50	30669059.60	30669059.71	0.2701	0.1544
Mercury	79259-06-06 03:22 G	30669971.51	30669971.64	30669971.76	0.2619	0.0354
Venus	79272-04-16 19:27 G	30674670.15	30674670.31	30674670.48	0.2628	0.0600
Mercury	79272-06-07 23:17 G	30674722.37	30674722.47	30674722.57	0.2623	0.1527
Mercury	79276-12-01 08:39 G	30676359.76	30676359.86	30676359.97	0.2709	0.1639
Mercury	79279-06-01 16:48 G	30677272.12	30677272.20	30677272.29	0.2622	0.1961
Mercury	79289-12-04 08:53 G	30681110.73	30681110.87	30681111.00	0.2703	0.0122
Mercury	79292-06-03 12:29 G	30682022.90	30682023.02	30682023.14	0.2618	0.0748
Mercury	79302-12-08 07:56 G	30685861.73	30685861.83	30685861.93	0.2701	0.1739
Mercury	79305-06-07 08:24 G	30686773.72	30686773.85	30686773.97	0.2620	0.0507
Mercury	79318-06-10 04:34 G	30691524.60	30691524.69	30691524.77	0.2623	0.1941
Mercury	79322-12-03 14:24 G	30693161.99	30693162.10	30693162.22	0.2707	0.1420
Mercury	79325-06-02 21:51 G	30694074.32	30694074.41	30694074.50	0.2621	0.1792
Mercury	79335-12-06 14:24 G	30697912.97	30697913.10	30697913.23	0.2703	0.0474
Mercury	79338-06-05 17:32 G	30698825.11	30698825.23	30698825.36	0.2618	0.0475
Mercury	79348-12-08 13:12 G	30702663.97	30702664.05	30702664.14	0.2700	0.2079

Mercury	79351-06-08 13:27 G	30703575.94	30703576.06	30703576.18	0.2621	0.0795
Mercury	79364-06-10 09:36 G	30708326.83	30708326.90	30708326.98	0.2624	0.2087
Mercury	79368-12-03 20:10 G	30709964.21	30709964.34	30709964.47	0.2706	0.0901
Venus	79369-10-21 06:44 G	30710285.66	30710285.78	30710285.90	0.2694	0.1852
Mercury	79371-06-04 02:53 G	30710876.52	30710876.62	30710876.72	0.2620	0.1441
Venus	79377-10-18 17:32 G	30713205.12	30713205.23	30713205.35	0.2691	0.1865
Mercury	79381-12-06 19:56 G	30714715.20	30714715.33	30714715.46	0.2703	0.0713
Mercury	79384-06-05 22:48 G	30715627.32	30715627.45	30715627.57	0.2619	0.0275
Mercury	79394-12-09 18:44 G	30719466.22	30719466.28	30719466.34	0.2700	0.2404
Mercury	79397-06-08 18:29 G	30720378.15	30720378.27	30720378.38	0.2621	0.1058
Mercury	79401-12-03 01:12 G	30722015.50	30722015.55	30722015.61	0.2711	0.2456
Mercury	79404-06-02 12:15 G	30722927.97	30722928.01	30722928.05	0.2624	0.2445
Mercury	79410-06-12 14:53 G	30725129.08	30725129.12	30725129.16	0.2625	0.2461
Mercury	79414-12-06 01:56 G	30726766.45	30726766.58	30726766.71	0.2706	0.0742
Mercury	79417-06-05 07:56 G	30727678.73	30727678.83	30727678.94	0.2619	0.1333
Mercury	79427-12-09 01:12 G	30731517.43	30731517.55	30731517.68	0.2702	0.1140
Mercury	79430-06-08 03:51 G	30732429.53	30732429.66	30732429.78	0.2619	0.0110
Mercury	79440-12-11 00:15 G	30736268.50	30736268.51	30736268.53	0.2700	0.2669
Mercury	79443-06-10 23:32 G	30737180.38	30737180.48	30737180.59	0.2621	0.1279
Mercury	79447-12-04 07:12 G	30738817.72	30738817.80	30738817.88	0.2709	0.2205
Mercury	79450-06-03 17:32 G	30739730.17	30739730.23	30739730.28	0.2623	0.2318
Mercury	79460-12-06 07:27 G	30743568.68	30743568.81	30743568.95	0.2705	0.0230
Mercury	79463-06-06 13:12 G	30744480.93	30744481.05	30744481.16	0.2619	0.0929
Mercury	79473-12-09 06:44 G	30748319.66	30748319.78	30748319.90	0.2701	0.1291
Mercury	79476-06-08 08:39 G	30749231.74	30749231.86	30749231.99	0.2619	0.0183
Mercury	79489-06-11 04:48 G	30753982.60	30753982.70	30753982.80	0.2622	0.1619
Mercury	79493-12-04 12:58 G	30755619.94	30755620.04	30755620.14	0.2708	0.1780
Mercury	79496-06-03 22:34 G	30756532.36	30756532.44	30756532.51	0.2621	0.1988
Mercury	79506-12-08 12:58 G	30760370.91	30760371.04	30760371.18	0.2704	0.0103
Mercury	79509-06-07 18:15 G	30761283.14	30761283.26	30761283.38	0.2619	0.0813

Venus	79515-04-20 15:36 G	30763426.00	30763426.15	30763426.31	0.2639	0.0176
Mercury	79519-12-11 12:15 G	30765121.91	30765122.01	30765122.11	0.2700	0.1790
Mercury	79522-06-10 13:41 G	30766033.95	30766034.07	30766034.20	0.2619	0.0585
Venus	79523-04-18 10:34 G	30766345.92	30766345.94	30766345.97	0.2642	0.2579
Mercury	79535-06-13 09:51 G	30770784.82	30770784.91	30770785.01	0.2623	0.1780
Mercury	79539-12-06 18:44 G	30772422.17	30772422.28	30772422.39	0.2708	0.1456
Mercury	79542-06-06 03:36 G	30773334.56	30773334.65	30773334.74	0.2621	0.1779
Mercury	79552-12-08 18:29 G	30777173.14	30777173.27	30777173.40	0.2703	0.0372
Mercury	79555-06-08 23:17 G	30778085.34	30778085.47	30778085.59	0.2619	0.0476
Mercury	79565-12-11 18:00 G	30781924.15	30781924.25	30781924.34	0.2700	0.1938
Mercury	79568-06-10 18:58 G	30782836.17	30782836.29	30782836.41	0.2619	0.0696
Mercury	79581-06-13 15:08 G	30787587.06	30787587.13	30787587.20	0.2625	0.2187
Mercury	79585-12-07 00:29 G	30789224.39	30789224.52	30789224.64	0.2708	0.1122
Mercury	79588-06-06 08:39 G	30790136.76	30790136.86	30790136.96	0.2621	0.1515
Mercury	79598-12-10 00:15 G	30793975.38	30793975.51	30793975.64	0.2702	0.0641
Mercury	79601-06-09 04:05 G	30794887.55	30794887.67	30794887.80	0.2618	0.0311
Mercury	79611-12-12 23:17 G	30798726.41	30798726.47	30798726.53	0.2701	0.2383
Venus	79612-10-22 22:48 G	30799041.34	30799041.45	30799041.57	0.2702	0.1688
Mercury	79614-06-12 00:00 G	30799638.39	30799638.50	30799638.62	0.2620	0.1087
Venus	79620-10-20 17:46 G	30801961.13	30801961.24	30801961.36	0.2704	0.1747
Mercury	79621-06-04 18:00 G	30802188.24	30802188.25	30802188.26	0.2623	0.2597
Mercury	79627-06-14 20:24 G	30804389.29	30804389.35	30804389.40	0.2625	0.2304
Mercury	79631-12-08 06:00 G	30806026.62	30806026.75	30806026.88	0.2706	0.0722
Mercury	79634-06-07 13:41 G	30806938.97	30806939.07	30806939.18	0.2620	0.1254
Mercury	79644-12-10 05:46 G	30810777.62	30810777.74	30810777.87	0.2702	0.0994
Mercury	79647-06-10 09:22 G	30811689.76	30811689.89	30811690.01	0.2618	0.0092
Mercury	79657-12-13 04:34 G	30815528.66	30815528.69	30815528.73	0.2701	0.2588
Mercury	79660-06-12 05:03 G	30816440.60	30816440.71	30816440.82	0.2622	0.1244
Mercury	79664-12-05 11:17 G	30818077.89	30818077.97	30818078.04	0.2711	0.2198
Mercury	79667-06-05 23:03 G	30818990.40	30818990.46	30818990.53	0.2623	0.2214

Mercury	79677-12-08 11:46 G	30822828.85	30822828.99	30822829.12	0.2704	0.0515
Mercury	79680-06-07 18:44 G	30823741.17	30823741.28	30823741.39	0.2619	0.1078
Mercury	79690-12-11 11:17 G	30827579.86	30827579.97	30827580.09	0.2702	0.1335
Mercury	79693-06-10 14:24 G	30828491.98	30828492.10	30828492.22	0.2618	0.0247
Mercury	79706-06-14 10:20 G	30833242.82	30833242.93	30833243.03	0.2623	0.1551
Mercury	79710-12-07 17:03 G	30834880.12	30834880.21	30834880.30	0.2710	0.2025
Mercury	79713-06-07 04:20 G	30835792.61	30835792.68	30835792.75	0.2623	0.2106
Mercury	79723-12-10 17:17 G	30839631.09	30839631.22	30839631.36	0.2703	0.0020
Mercury	79726-06-09 23:46 G	30840543.37	30840543.49	30840543.61	0.2618	0.0733
Mercury	79736-12-12 16:48 G	30844382.09	30844382.20	30844382.31	0.2701	0.1575
Mercury	79739-06-12 19:27 G	30845294.19	30845294.31	30845294.43	0.2619	0.0453
Mercury	79752-06-14 15:22 G	30850045.05	30850045.14	30850045.23	0.2623	0.1806
Mercury	79756-12-07 22:48 G	30851682.34	30851682.45	30851682.56	0.2708	0.1506
Venus	79758-04-22 01:27 G	30852182.41	30852182.56	30852182.72	0.2634	0.0859
Mercury	79759-06-08 09:22 G	30852594.80	30852594.89	30852594.98	0.2622	0.1727
Mercury	79769-12-10 23:03 G	30856433.33	30856433.46	30856433.60	0.2704	0.0163
Mercury	79772-06-10 04:48 G	30857345.58	30857345.70	30857345.82	0.2618	0.0610
Mercury	79782-12-13 22:05 G	30861184.33	30861184.42	30861184.51	0.2701	0.1995
Mercury	79785-06-13 00:29 G	30862096.40	30862096.52	30862096.64	0.2620	0.0786
Mercury	79798-06-15 20:39 G	30866847.28	30866847.36	30866847.43	0.2623	0.2059
Mercury	79802-12-10 04:34 G	30868484.57	30868484.69	30868484.81	0.2706	0.1280
Mercury	79805-06-09 14:24 G	30869397.00	30869397.10	30869397.19	0.2620	0.1604
Mercury	79815-12-13 04:34 G	30873235.56	30873235.69	30873235.82	0.2703	0.0661
Mercury	79818-06-12 09:51 G	30874147.79	30874147.91	30874148.04	0.2618	0.0222
Mercury	79828-12-15 03:36 G	30877986.57	30877986.65	30877986.73	0.2700	0.2156
Mercury	79831-06-15 05:32 G	30878898.61	30878898.73	30878898.85	0.2621	0.0911
Mercury	79838-06-07 23:46 G	30881448.47	30881448.49	30881448.51	0.2625	0.2575
Mercury	79844-06-17 01:56 G	30883649.53	30883649.58	30883649.63	0.2624	0.2395
Mercury	79848-12-10 10:20 G	30885286.80	30885286.93	30885287.06	0.2706	0.0834
Mercury	79851-06-10 19:27 G	30886199.20	30886199.31	30886199.41	0.2619	0.1264

Venus	79855-10-26 11:17 G	30887797.87	30887797.97	30887798.06	0.2696	0.2101
Mercury	79861-12-13 10:05 G	30890037.79	30890037.92	30890038.05	0.2702	0.0819
Venus	79863-10-24 00:15 G	30890717.36	30890717.51	30890717.67	0.2690	0.0859
Mercury	79864-06-12 14:53 G	30890950.00	30890950.12	30890950.25	0.2619	0.0110
Mercury	79874-12-16 09:08 G	30894788.86	30894788.88	30894788.90	0.2700	0.2649
Mercury	79877-06-15 10:34 G	30895700.84	30895700.94	30895701.05	0.2620	0.1328
Mercury	79881-12-08 15:22 G	30897338.09	30897338.14	30897338.19	0.2710	0.2464
Mercury	79884-06-08 04:48 G	30898250.65	30898250.70	30898250.76	0.2623	0.2323
Mercury	79890-06-18 06:58 G	30900451.77	30900451.79	30900451.82	0.2626	0.2573
Mercury	79894-12-11 16:05 G	30902089.03	30902089.17	30902089.30	0.2706	0.0553
Mercury	79897-06-11 00:29 G	30903001.41	30903001.52	30903001.63	0.2619	0.1076
Mercury	79907-12-15 15:22 G	30906840.02	30906840.14	30906840.26	0.2701	0.1255
Mercury	79910-06-14 19:56 G	30907752.20	30907752.33	30907752.45	0.2619	0.0249
Mercury	79923-06-17 15:51 G	30912503.06	30912503.16	30912503.27	0.2621	0.1449
Mercury	79927-12-10 21:08 G	30914140.29	30914140.38	30914140.47	0.2709	0.1977
Mercury	79930-06-10 09:51 G	30915052.83	30915052.91	30915052.99	0.2621	0.2027
Mercury	79940-12-12 21:36 G	30918891.27	30918891.40	30918891.54	0.2705	0.0193
Mercury	79943-06-13 05:32 G	30919803.61	30919803.73	30919803.85	0.2619	0.0793
Mercury	79953-12-15 21:08 G	30923642.27	30923642.38	30923642.49	0.2701	0.1502
Mercury	79956-06-15 00:58 G	30924554.42	30924554.54	30924554.66	0.2619	0.0419
Mercury	79969-06-17 20:53 G	30929305.29	30929305.37	30929305.46	0.2622	0.1846
Mercury	79973-12-11 02:53 G	30930942.52	30930942.62	30930942.73	0.2709	0.1774
Mercury	79976-06-10 14:53 G	30931855.04	30931855.12	30931855.21	0.2621	0.1873
Mercury	79986-12-14 03:08 G	30935693.49	30935693.63	30935693.77	0.2703	0.0178
Mercury	79989-06-13 10:20 G	30936605.81	30936605.93	30936606.06	0.2619	0.0556
Mercury	79999-12-17 02:39 G	30940444.52	30940444.61	30940444.71	0.2701	0.1879

81ST MILLENNIUM CE

This is a list of transits visible from Moon in the 81st millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	80001-04-23 15:36	G	30940937.99	30940938.15	30940938.30	0.2636	0.0473	
Mercury	80002-06-16 06:00	G	30941356.63	30941356.75	30941356.87	0.2619	0.0729	
Mercury	80015-06-19 02:10	G	30946107.51	30946107.59	30946107.67	0.2624	0.2008	
Mercury	80019-12-12 08:39	G	30947744.74	30947744.86	30947744.98	0.2708	0.1252	
Mercury	80022-06-11 19:56	G	30948657.23	30948657.33	30948657.43	0.2621	0.1503	
Mercury	80032-12-14 08:39	G	30952495.73	30952495.86	30952496.00	0.2702	0.0402	
Mercury	80035-06-14 15:22	G	30953408.02	30953408.14	30953408.27	0.2618	0.0374	
Mercury	80045-12-17 08:10	G	30957246.76	30957246.84	30957246.91	0.2701	0.2189	
Mercury	80048-06-16 11:17	G	30958158.85	30958158.97	30958159.08	0.2619	0.0976	
Mercury	80055-06-10 05:32	G	30960708.70	30960708.73	30960708.76	0.2623	0.2518	
Mercury	80061-06-19 07:12	G	30962909.75	30962909.80	30962909.85	0.2625	0.2341	
Mercury	80065-12-12 14:24	G	30964546.98	30964547.10	30964547.22	0.2707	0.1080	
Mercury	80068-06-12 01:12	G	30965459.44	30965459.55	30965459.65	0.2620	0.1388	
Mercury	80078-12-15 14:24	G	30969297.97	30969298.10	30969298.22	0.2702	0.0887	
Mercury	80081-06-14 20:24	G	30970210.23	30970210.35	30970210.48	0.2618	0.0058	
Mercury	80091-12-18 13:27	G	30974049.00	30974049.06	30974049.12	0.2701	0.2428	
Mercury	80094-06-17 16:20	G	30974961.07	30974961.18	30974961.29	0.2621	0.1194	
Venus	80098-10-27 01:41	G	30976553.44	30976553.57	30976553.70	0.2695	0.1608	
Mercury	80098-12-10 19:27	G	30976598.27	30976598.31	30976598.34	0.2711	0.2614	
Mercury	80101-06-11 10:34	G	30977510.89	30977510.94	30977510.99	0.2623	0.2385	
Venus	80106-10-25 18:15	G	30979473.17	30979473.26	30979473.35	0.2699	0.2159	
Mercury	80107-06-21 12:29	G	30979712.00	30979712.02	30979712.04	0.2625	0.2580	

Mercury	80111-12-14 19:56 G	30981349.20	30981349.33	30981349.47	0.2705	0.0574
Mercury	80114-06-14 06:00 G	30982261.64	30982261.75	30982261.87	0.2620	0.1017
Mercury	80124-12-16 19:56 G	30986100.21	30986100.33	30986100.46	0.2702	0.1059
Mercury	80127-06-17 01:41 G	30987012.44	30987012.57	30987012.69	0.2618	0.0123
Mercury	80140-06-18 21:22 G	30991763.29	30991763.39	30991763.49	0.2622	0.1536
Mercury	80144-12-12 01:12 G	30993400.47	30993400.55	30993400.63	0.2710	0.2157
Mercury	80147-06-12 15:36 G	30994313.08	30994313.15	30994313.23	0.2623	0.2036
Mercury	80157-12-15 01:41 G	30998151.44	30998151.57	30998151.71	0.2704	0.0370
Mercury	80160-06-14 11:03 G	30999063.85	30999063.96	30999064.08	0.2618	0.0896
Mercury	80170-12-18 01:27 G	31002902.45	31002902.56	31002902.67	0.2702	0.1529
Mercury	80173-06-17 06:44 G	31003814.66	31003814.78	31003814.90	0.2619	0.0507
Mercury	80186-06-20 02:24 G	31008565.51	31008565.60	31008565.70	0.2622	0.1676
Mercury	80190-12-13 06:58 G	31010202.69	31010202.79	31010202.89	0.2708	0.1821
Mercury	80193-06-12 20:39 G	31011115.28	31011115.36	31011115.45	0.2622	0.1860
Mercury	80203-12-17 07:27 G	31014953.67	31014953.81	31014953.94	0.2704	0.0105
Mercury	80206-06-16 16:05 G	31015866.05	31015866.17	31015866.29	0.2618	0.0538
Mercury	80216-12-19 06:44 G	31019704.68	31019704.78	31019704.89	0.2701	0.1689
Mercury	80219-06-19 11:46 G	31020616.86	31020616.99	31020617.11	0.2620	0.0629
Mercury	80232-06-21 07:41 G	31025367.74	31025367.82	31025367.89	0.2622	0.2093
Mercury	80236-12-14 12:44 G	31027004.92	31027005.03	31027005.15	0.2707	0.1498
Mercury	80239-06-15 01:41 G	31027917.47	31027917.57	31027917.67	0.2620	0.1605
Venus	80244-04-26 03:22 G	31029694.50	31029694.64	31029694.79	0.2640	0.0979
Mercury	80249-12-17 12:58 G	31031755.91	31031756.04	31031756.18	0.2704	0.0356
Venus	80252-04-23 18:15 G	31032614.14	31032614.26	31032614.39	0.2636	0.1713
Mercury	80252-06-16 21:22 G	31032668.26	31032668.39	31032668.51	0.2618	0.0375
Mercury	80262-12-20 12:15 G	31036506.93	31036507.01	31036507.09	0.2700	0.2141
Mercury	80265-06-19 16:34 G	31037419.08	31037419.19	31037419.31	0.2620	0.0986
Mercury	80278-06-22 12:58 G	31042169.97	31042170.04	31042170.10	0.2623	0.2226
Mercury	80282-12-15 18:29 G	31043807.15	31043807.27	31043807.40	0.2706	0.1040
Mercury	80285-06-15 06:44 G	31044719.67	31044719.78	31044719.89	0.2619	0.1316

Mercury	80295-12-18 18:29 G	31048558.14	31048558.27	31048558.40	0.2703	0.0710
Mercury	80298-06-18 02:10 G	31049470.47	31049470.59	31049470.72	0.2619	0.0100
Mercury	80308-12-21 18:00 G	31053309.19	31053309.25	31053309.31	0.2700	0.2371
Mercury	80311-06-21 21:51 G	31054221.30	31054221.41	31054221.52	0.2620	0.1152
Mercury	80315-12-14 23:17 G	31055858.44	31055858.47	31055858.51	0.2710	0.2597
Mercury	80318-06-14 16:20 G	31056771.12	31056771.18	31056771.23	0.2624	0.2295
Mercury	80328-12-17 00:15 G	31060609.38	31060609.51	31060609.64	0.2706	0.0816
Mercury	80331-06-17 11:46 G	31061521.88	31061521.99	31061522.10	0.2619	0.1144
Venus	80341-10-30 12:44 G	31065310.00	31065310.03	31065310.07	0.2700	0.2609
Mercury	80341-12-20 00:00 G	31065360.38	31065360.50	31065360.63	0.2701	0.1064
Mercury	80344-06-19 07:12 G	31066272.67	31066272.80	31066272.92	0.2619	0.0182
Venus	80349-10-28 05:32 G	31068229.58	31068229.73	31068229.89	0.2694	0.0479
Mercury	80357-06-22 02:53 G	31071023.52	31071023.62	31071023.72	0.2620	0.1489
Mercury	80361-12-15 05:17 G	31072660.66	31072660.72	31072660.78	0.2709	0.2400
Mercury	80364-06-14 21:22 G	31073573.32	31073573.39	31073573.46	0.2622	0.2182
Mercury	80374-12-18 05:46 G	31077411.61	31077411.74	31077411.88	0.2706	0.0339
Mercury	80377-06-17 16:48 G	31078324.09	31078324.20	31078324.32	0.2619	0.0792
Mercury	80387-12-21 05:46 G	31082162.62	31082162.74	31082162.86	0.2701	0.1306
Mercury	80390-06-20 12:15 G	31083074.88	31083075.01	31083075.13	0.2618	0.0364
Mercury	80403-06-23 08:10 G	31087825.74	31087825.84	31087825.93	0.2622	0.1728
Mercury	80407-12-16 11:03 G	31089462.86	31089462.96	31089463.06	0.2709	0.1859
Mercury	80410-06-16 02:24 G	31090375.51	31090375.60	31090375.69	0.2621	0.1786
Mercury	80420-12-18 11:32 G	31094213.84	31094213.98	31094214.12	0.2704	0.0160
Mercury	80423-06-18 21:51 G	31095126.29	31095126.41	31095126.53	0.2619	0.0668
Mercury	80433-12-21 11:17 G	31098964.87	31098964.97	31098965.07	0.2701	0.1767
Mercury	80436-06-20 17:17 G	31099877.10	31099877.22	31099877.34	0.2619	0.0715
Mercury	80449-06-23 13:12 G	31104627.97	31104628.05	31104628.13	0.2623	0.1959
Mercury	80453-12-16 16:48 G	31106265.09	31106265.20	31106265.31	0.2709	0.1656
Mercury	80456-06-16 07:27 G	31107177.72	31107177.81	31107177.91	0.2621	0.1670
Mercury	80466-12-19 17:03 G	31111016.08	31111016.21	31111016.35	0.2703	0.0356

Mercury	80469-06-19 02:53 G	31111928.49	31111928.62	31111928.74	0.2618	0.0315
Mercury	80479-12-22 16:48 G	31115767.11	31115767.20	31115767.29	0.2701	0.1944
Mercury	80482-06-21 22:20 G	31116679.32	31116679.43	31116679.55	0.2619	0.0867
Venus	80487-04-27 18:44 G	31118450.12	31118450.28	31118450.43	0.2633	0.0843
Mercury	80489-06-14 17:03 G	31119229.21	31119229.21	31119229.21	0.2624	0.2620
Mercury	80495-06-24 18:15 G	31121430.21	31121430.26	31121430.32	0.2624	0.2309
Mercury	80499-12-17 22:34 G	31123067.32	31123067.44	31123067.56	0.2707	0.1187
Mercury	80502-06-18 12:29 G	31123979.92	31123980.02	31123980.13	0.2621	0.1312
Mercury	80512-12-20 22:48 G	31127818.32	31127818.45	31127818.58	0.2702	0.0537
Mercury	80515-06-21 07:41 G	31128730.70	31128730.82	31128730.95	0.2618	0.0208
Mercury	80525-12-23 22:05 G	31132569.36	31132569.42	31132569.48	0.2701	0.2404
Mercury	80528-06-23 03:22 G	31133481.53	31133481.64	31133481.75	0.2620	0.1244
Mercury	80535-06-16 22:05 G	31136031.38	31136031.42	31136031.47	0.2623	0.2392
Mercury	80541-06-25 23:32 G	31138232.44	31138232.48	31138232.52	0.2624	0.2475
Mercury	80545-12-19 04:20 G	31139869.55	31139869.68	31139869.81	0.2705	0.0876
Mercury	80548-06-18 17:32 G	31140782.12	31140782.23	31140782.34	0.2620	0.1141
Mercury	80558-12-22 04:34 G	31144620.56	31144620.69	31144620.81	0.2702	0.1022
Mercury	80561-06-21 12:58 G	31145532.91	31145533.04	31145533.16	0.2618	0.0200
Mercury	80571-12-25 03:36 G	31149371.61	31149371.65	31149371.69	0.2701	0.2565
Mercury	80574-06-24 08:24 G	31150283.75	31150283.85	31150283.96	0.2621	0.1366
Mercury	80578-12-17 09:08 G	31151920.82	31151920.88	31151920.94	0.2711	0.2392
Mercury	80581-06-17 03:08 G	31152833.56	31152833.63	31152833.70	0.2623	0.2092
Venus	80584-10-31 08:24 G	31154065.73	31154065.85	31154065.98	0.2689	0.1659
Mercury	80591-12-20 10:05 G	31156671.79	31156671.92	31156672.05	0.2704	0.0542
Venus	80592-10-28 21:22 G	31156985.26	31156985.39	31156985.51	0.2692	0.1651
Mercury	80594-06-19 22:34 G	31157584.32	31157584.44	31157584.55	0.2618	0.0890
Mercury	80604-12-23 10:05 G	31161422.80	31161422.92	31161423.04	0.2702	0.1250
Mercury	80607-06-23 18:00 G	31162335.13	31162335.25	31162335.37	0.2618	0.0357
Mercury	80620-06-25 13:41 G	31167085.97	31167086.07	31167086.16	0.2622	0.1759
Mercury	80624-12-18 14:53 G	31168723.04	31168723.12	31168723.20	0.2709	0.2164

Mercury	80627-06-19 08:10 G	31169635.76	31169635.84	31169635.92	0.2622	0.1927
Mercury	80637-12-21 15:51 G	31173474.02	31173474.16	31173474.29	0.2704	0.0125
Mercury	80640-06-21 03:36 G	31174386.53	31174386.65	31174386.77	0.2618	0.0610
Mercury	80650-12-24 15:22 G	31178225.03	31178225.14	31178225.25	0.2701	0.1596
Mercury	80653-06-23 23:03 G	31179137.34	31179137.46	31179137.58	0.2619	0.0651
Mercury	80666-06-26 18:44 G	31183888.20	31183888.28	31183888.37	0.2622	0.1909
Mercury	80670-12-19 20:53 G	31185525.26	31185525.37	31185525.48	0.2707	0.1613
Mercury	80673-06-19 13:12 G	31186437.95	31186438.05	31186438.15	0.2621	0.1574
Mercury	80683-12-22 21:22 G	31190276.26	31190276.39	31190276.53	0.2704	0.0139
Mercury	80686-06-22 08:39 G	31191188.74	31191188.86	31191188.98	0.2618	0.0412
Mercury	80696-12-24 20:53 G	31195027.28	31195027.37	31195027.46	0.2701	0.1951
Mercury	80699-06-25 03:51 G	31195939.55	31195939.66	31195939.78	0.2620	0.0900
Mercury	80706-06-18 22:48 G	31198489.43	31198489.45	31198489.47	0.2625	0.2578
Mercury	80712-06-28 00:00 G	31200690.44	31200690.50	31200690.56	0.2623	0.2275
Mercury	80716-12-21 02:39 G	31202327.50	31202327.61	31202327.73	0.2706	0.1436
Mercury	80719-06-21 18:15 G	31203240.16	31203240.26	31203240.36	0.2620	0.1460
Mercury	80729-12-24 02:53 G	31207078.49	31207078.62	31207078.76	0.2703	0.0588
Venus	80730-05-01 02:24 G	31207206.48	31207206.60	31207206.73	0.2645	0.1446
Mercury	80732-06-23 13:41 G	31207990.94	31207991.07	31207991.19	0.2619	0.0082
Venus	80738-04-28 19:56 G	31210126.19	31210126.33	31210126.47	0.2642	0.1255
Mercury	80742-12-27 02:39 G	31211829.53	31211829.61	31211829.68	0.2700	0.2216
Mercury	80745-06-26 09:08 G	31212741.76	31212741.88	31212741.99	0.2620	0.1114
Mercury	80752-06-19 03:51 G	31215291.62	31215291.66	31215291.70	0.2624	0.2452
Mercury	80758-06-29 05:03 G	31217492.68	31217492.71	31217492.74	0.2625	0.2509
Mercury	80762-12-22 08:24 G	31219129.72	31219129.85	31219129.98	0.2707	0.0887
Mercury	80765-06-21 23:17 G	31220042.36	31220042.47	31220042.58	0.2619	0.1062
Mercury	80775-12-25 08:24 G	31223880.72	31223880.85	31223880.98	0.2702	0.0751
Mercury	80778-06-24 18:29 G	31224793.15	31224793.27	31224793.40	0.2619	0.0090
Mercury	80788-12-27 08:10 G	31228631.82	31228631.84	31228631.86	0.2701	0.2650
Mercury	80791-06-27 14:10 G	31229543.99	31229544.09	31229544.19	0.2620	0.1464

Mercury	80795-12-20 13:12 G	31231181.01	31231181.05	31231181.09	0.2709	0.2569
Mercury	80798-06-20 08:53 G	31232093.80	31232093.87	31232093.94	0.2622	0.2123
Mercury	80808-12-22 14:10 G	31235931.96	31235932.09	31235932.22	0.2706	0.0700
Mercury	80811-06-23 04:20 G	31236844.57	31236844.68	31236844.80	0.2619	0.0948
Mercury	80821-12-25 14:10 G	31240682.97	31240683.09	31240683.21	0.2701	0.1272
Mercury	80824-06-24 23:32 G	31241595.36	31241595.48	31241595.60	0.2618	0.0432
Venus	80827-11-03 12:00 G	31242821.96	31242822.00	31242822.04	0.2701	0.2572
Venus	80835-11-01 07:56 G	31245741.68	31245741.83	31245741.97	0.2698	0.0912
Mercury	80837-06-27 19:12 G	31246346.21	31246346.30	31246346.40	0.2621	0.1622
Mercury	80841-12-20 18:58 G	31247983.22	31247983.29	31247983.37	0.2709	0.2189
Mercury	80844-06-20 13:56 G	31248896.00	31248896.08	31248896.16	0.2621	0.1907
Mercury	80854-12-23 19:41 G	31252734.19	31252734.32	31252734.46	0.2704	0.0241
Mercury	80857-06-23 09:22 G	31253646.77	31253646.89	31253647.01	0.2619	0.0597
Mercury	80867-12-26 19:41 G	31257485.21	31257485.32	31257485.44	0.2701	0.1448
Mercury	80870-06-26 04:34 G	31258397.57	31258397.69	31258397.81	0.2618	0.0551
Mercury	80883-06-29 00:15 G	31263148.44	31263148.51	31263148.59	0.2623	0.2015
Mercury	80887-12-22 00:44 G	31264785.44	31264785.53	31264785.63	0.2709	0.1861
Mercury	80890-06-21 18:58 G	31265698.20	31265698.29	31265698.39	0.2621	0.1653
Mercury	80900-12-25 01:27 G	31269536.42	31269536.56	31269536.70	0.2703	0.0063
Mercury	80903-06-25 14:10 G	31270448.97	31270449.09	31270449.22	0.2618	0.0435
Mercury	80913-12-28 01:27 G	31274287.46	31274287.56	31274287.65	0.2701	0.1922
Mercury	80916-06-27 09:51 G	31275199.79	31275199.91	31275200.02	0.2619	0.0945
Mercury	80929-06-30 05:32 G	31279950.66	31279950.73	31279950.80	0.2624	0.2135
Mercury	80933-12-23 06:29 G	31281587.66	31281587.77	31281587.89	0.2708	0.1417
Mercury	80936-06-23 00:00 G	31282500.40	31282500.50	31282500.61	0.2621	0.1381
Mercury	80946-12-26 07:12 G	31286338.66	31286338.80	31286338.93	0.2702	0.0412
Mercury	80949-06-25 19:12 G	31287251.18	31287251.30	31287251.42	0.2618	0.0162
Mercury	80959-12-29 06:44 G	31291089.70	31291089.78	31291089.86	0.2701	0.2143
Mercury	80962-06-28 14:39 G	31292002.00	31292002.11	31292002.23	0.2620	0.1098
Mercury	80969-06-21 09:36 G	31294551.85	31294551.90	31294551.96	0.2623	0.2343

Venus	80973-05-02 00:15 G	31295962.35	31295962.51	31295962.67	0.2633	0.1047
Mercury	80975-07-01 10:34 G	31296752.92	31296752.94	31296752.97	0.2624	0.2555
Mercury	80979-12-24 12:15 G	31298389.89	31298390.01	31298390.14	0.2706	0.1191
Mercury	80982-06-24 05:03 G	31299302.60	31299302.71	31299302.82	0.2620	0.1203
Mercury	80992-12-26 12:44 G	31303140.90	31303141.03	31303141.17	0.2703	0.0804
Mercury	80995-06-27 00:15 G	31304053.39	31304053.51	31304053.64	0.2618	0.0133

82ND MILLENNIUM CE

This is a list of transits visible from Moon in the 82nd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	81005-12-30 12:15 G		31307891.96	31307892.01	31307892.06	0.2701	0.2496	
Mercury	81008-06-29 19:41 G		31308804.22	31308804.32	31308804.43	0.2621	0.1393	
Mercury	81015-06-23 14:53 G		31311354.06	31311354.12	31311354.18	0.2623	0.2233	
Mercury	81025-12-25 18:00 G		31315192.12	31315192.25	31315192.39	0.2704	0.0654	
Mercury	81028-06-25 10:05 G		31316104.80	31316104.92	31316105.03	0.2619	0.0856	
Mercury	81038-12-28 18:29 G		31319943.14	31319943.27	31319943.39	0.2702	0.1054	
Mercury	81041-06-28 05:17 G		31320855.60	31320855.72	31320855.85	0.2618	0.0328	
Mercury	81054-07-01 00:44 G		31325606.44	31325606.53	31325606.63	0.2621	0.1651	
Mercury	81058-12-23 22:48 G		31327243.38	31327243.45	31327243.52	0.2709	0.2278	
Mercury	81061-06-23 19:56 G		31328156.24	31328156.33	31328156.41	0.2623	0.1851	
Venus	81070-11-05 17:03 G		31331578.16	31331578.21	31331578.26	0.2687	0.2557	
Mercury	81071-12-27 00:00 G		31331994.36	31331994.50	31331994.63	0.2704	0.0486	
Mercury	81074-06-26 15:08 G		31332907.01	31332907.13	31332907.25	0.2618	0.0734	

Venus	81078-11-03 04:20 G	31334497.52	31334497.68	31334497.84	0.2685	0.0699
Mercury	81084-12-28 23:46 G	31336745.38	31336745.49	31336745.61	0.2702	0.1496
Mercury	81087-06-29 10:20 G	31337657.81	31337657.93	31337658.05	0.2619	0.0652
Mercury	81100-07-02 06:00 G	31342408.66	31342408.75	31342408.83	0.2621	0.1894
Mercury	81104-12-25 04:48 G	31344045.61	31344045.70	31344045.79	0.2707	0.2011
Mercury	81107-06-26 00:44 G	31344958.44	31344958.53	31344958.62	0.2621	0.1726
Mercury	81117-12-28 05:32 G	31348796.60	31348796.73	31348796.87	0.2704	0.0082
Mercury	81120-06-27 20:10 G	31349709.22	31349709.34	31349709.46	0.2618	0.0342
Mercury	81130-12-31 05:17 G	31353547.62	31353547.72	31353547.83	0.2701	0.1662
Mercury	81133-06-30 15:22 G	31354460.02	31354460.14	31354460.25	0.2619	0.0782
Mercury	81146-07-03 11:03 G	31359210.90	31359210.96	31359211.03	0.2622	0.2236
Mercury	81150-12-26 10:34 G	31360847.83	31360847.94	31360848.05	0.2707	0.1561
Mercury	81153-06-26 05:46 G	31361760.64	31361760.74	31361760.84	0.2620	0.1392
Mercury	81163-12-29 11:17 G	31365598.83	31365598.97	31365599.11	0.2704	0.0246
Mercury	81166-06-29 01:12 G	31366511.42	31366511.55	31366511.67	0.2618	0.0239
Mercury	81176-12-31 11:03 G	31370349.88	31370349.96	31370350.04	0.2701	0.2187
Mercury	81179-07-01 20:24 G	31371262.24	31371262.35	31371262.46	0.2619	0.1180
Mercury	81186-06-24 15:36 G	31373812.11	31373812.15	31373812.19	0.2625	0.2449
Mercury	81192-07-03 16:20 G	31376013.13	31376013.18	31376013.23	0.2624	0.2405
Mercury	81196-12-26 16:34 G	31377650.06	31377650.19	31377650.31	0.2707	0.1225
Mercury	81199-06-27 10:48 G	31378562.85	31378562.95	31378563.06	0.2619	0.1195
Mercury	81209-12-29 16:48 G	31382401.07	31382401.20	31382401.33	0.2702	0.0694
Mercury	81212-06-29 06:00 G	31383313.63	31383313.75	31383313.87	0.2618	0.0119
Venus	81216-05-03 23:32 G	31384718.36	31384718.48	31384718.60	0.2647	0.1664
Mercury	81223-01-01 16:48 G	31387152.13	31387152.20	31387152.26	0.2701	0.2358
Venus	81224-05-01 18:29 G	31387638.15	31387638.27	31387638.39	0.2647	0.1670
Mercury	81225-07-02 01:27 G	31388064.46	31388064.56	31388064.67	0.2619	0.1298
Mercury	81232-06-24 20:39 G	31390614.29	31390614.36	31390614.42	0.2623	0.2155
Mercury	81242-12-27 22:05 G	31394452.29	31394452.42	31394452.55	0.2706	0.0873
Mercury	81245-06-27 15:51 G	31395365.05	31395365.16	31395365.28	0.2619	0.0914

Mercury	81255-12-30 22:20 G	31399203.31	31399203.43	31399203.56	0.2701	0.0975
Mercury	81258-06-30 11:03 G	31400115.83	31400115.96	31400116.08	0.2618	0.0300
Mercury	81271-07-03 06:29 G	31404866.68	31404866.77	31404866.87	0.2620	0.1698
Mercury	81275-12-26 02:53 G	31406503.58	31406503.62	31406503.66	0.2709	0.2563
Mercury	81278-06-26 01:41 G	31407416.49	31407416.57	31407416.64	0.2622	0.1996
Mercury	81288-12-28 03:51 G	31411254.52	31411254.66	31411254.80	0.2705	0.0457
Mercury	81291-06-28 20:53 G	31412167.25	31412167.37	31412167.49	0.2619	0.0665
Mercury	81302-01-01 04:05 G	31416005.55	31416005.67	31416005.79	0.2701	0.1349
Mercury	81304-07-01 16:05 G	31416918.05	31416918.17	31416918.29	0.2618	0.0590
Venus	81313-11-07 12:29 G	31420333.92	31420334.02	31420334.12	0.2697	0.2026
Mercury	81317-07-04 11:32 G	31421668.90	31421668.98	31421669.07	0.2622	0.1859
Venus	81321-11-05 08:10 G	31423253.70	31423253.84	31423253.98	0.2698	0.1051
Mercury	81321-12-27 08:39 G	31423305.77	31423305.86	31423305.95	0.2709	0.2004
Mercury	81324-06-27 06:44 G	31424218.68	31424218.78	31424218.87	0.2621	0.1617
Mercury	81334-12-30 09:36 G	31428056.76	31428056.90	31428057.03	0.2703	0.0234
Mercury	81337-06-30 01:41 G	31428969.45	31428969.57	31428969.69	0.2618	0.0488
Mercury	81348-01-02 09:51 G	31432807.80	31432807.91	31432808.01	0.2702	0.1709
Mercury	81350-07-02 21:08 G	31433720.26	31433720.38	31433720.50	0.2618	0.0844
Mercury	81363-07-05 16:34 G	31438471.13	31438471.19	31438471.26	0.2623	0.2175
Mercury	81367-12-28 14:24 G	31440108.00	31440108.10	31440108.20	0.2708	0.1821
Mercury	81370-06-28 11:46 G	31441020.89	31441020.99	31441021.09	0.2621	0.1500
Mercury	81380-12-30 15:08 G	31444859.00	31444859.13	31444859.27	0.2703	0.0306
Mercury	81383-07-01 06:44 G	31445771.66	31445771.78	31445771.90	0.2618	0.0136
Mercury	81394-01-02 15:08 G	31449610.04	31449610.13	31449610.23	0.2702	0.1957
Mercury	81396-07-03 02:10 G	31450522.48	31450522.59	31450522.70	0.2619	0.1062
Mercury	81403-06-27 21:22 G	31453072.36	31453072.39	31453072.42	0.2624	0.2502
Mercury	81409-07-06 21:51 G	31455273.36	31455273.41	31455273.45	0.2623	0.2424
Mercury	81413-12-29 20:10 G	31456910.22	31456910.34	31456910.46	0.2706	0.1283
Mercury	81416-06-29 16:34 G	31457823.08	31457823.19	31457823.30	0.2620	0.1129
Mercury	81427-01-01 20:53 G	31461661.24	31461661.37	31461661.51	0.2703	0.0477

Mercury	81429-07-02 11:46 G	31462573.87	31462573.99	31462574.12	0.2618	0.0089
Mercury	81440-01-04 20:39 G	31466412.30	31466412.36	31466412.42	0.2701	0.2406
Mercury	81442-07-05 07:12 G	31467324.69	31467324.80	31467324.90	0.2620	0.1401
Mercury	81449-06-28 02:24 G	31469874.54	31469874.60	31469874.67	0.2624	0.2161
Venus	81459-05-07 06:15 G	31473474.64	31473474.76	31473474.88	0.2637	0.1806
Mercury	81459-12-31 02:10 G	31473712.46	31473712.59	31473712.71	0.2705	0.1042
Mercury	81462-06-30 21:36 G	31474625.29	31474625.40	31474625.51	0.2619	0.1007
Venus	81467-05-04 15:51 G	31476394.02	31476394.16	31476394.30	0.2637	0.1489
Mercury	81473-01-02 02:39 G	31478463.48	31478463.61	31478463.73	0.2703	0.0990
Mercury	81475-07-03 16:48 G	31479376.08	31479376.20	31479376.32	0.2618	0.0388
Mercury	81486-01-05 02:24 G	31483214.56	31483214.60	31483214.63	0.2701	0.2584
Mercury	81488-07-05 12:00 G	31484126.91	31484127.00	31484127.10	0.2621	0.1538
Mercury	81492-12-28 06:29 G	31485763.74	31485763.77	31485763.80	0.2710	0.2616
Mercury	81495-06-29 07:27 G	31486676.73	31486676.81	31486676.89	0.2623	0.1978
Mercury	81506-01-01 07:56 G	31490514.69	31490514.83	31490514.96	0.2705	0.0566
Mercury	81508-07-02 02:39 G	31491427.49	31491427.61	31491427.73	0.2618	0.0661
Mercury	81519-01-04 08:10 G	31495265.72	31495265.84	31495265.96	0.2702	0.1171
Mercury	81521-07-04 21:51 G	31496178.29	31496178.41	31496178.53	0.2619	0.0504
Mercury	81534-07-07 17:17 G	31500929.14	31500929.22	31500929.30	0.2621	0.1944
Mercury	81538-12-30 12:29 G	31502565.95	31502566.02	31502566.09	0.2708	0.2289
Mercury	81541-06-30 12:29 G	31503478.93	31503479.02	31503479.11	0.2622	0.1718
Mercury	81552-01-02 13:41 G	31507316.93	31507317.07	31507317.21	0.2705	0.0275
Mercury	81554-07-03 07:41 G	31508229.70	31508229.82	31508229.94	0.2618	0.0478
Venus	81564-11-07 12:29 G	31512009.85	31512010.02	31512010.18	0.2683	0.0351
Mercury	81565-01-04 13:41 G	31512067.96	31512068.07	31512068.18	0.2701	0.1625
Mercury	81567-07-06 02:39 G	31512980.50	31512980.61	31512980.73	0.2619	0.0850
Mercury	81580-07-07 22:20 G	31517731.36	31517731.43	31517731.51	0.2622	0.2071
Mercury	81584-12-30 18:15 G	31519368.16	31519368.26	31519368.37	0.2707	0.1780
Mercury	81587-07-01 17:32 G	31520281.12	31520281.23	31520281.33	0.2620	0.1434
Mercury	81598-01-02 19:12 G	31524119.16	31524119.30	31524119.44	0.2704	0.0095

Mercury	81600-07-03 12:44 G	31525031.90	31525032.03	31525032.15	0.2618	0.0195
Mercury	81611-01-05 19:27 G	31528870.21	31528870.31	31528870.40	0.2701	0.1890
Mercury	81613-07-06 07:41 G	31529782.71	31529782.82	31529782.93	0.2619	0.1025
Mercury	81620-06-29 03:08 G	31532332.59	31532332.63	31532332.68	0.2625	0.2415
Mercury	81626-07-09 03:22 G	31534533.61	31534533.64	31534533.68	0.2623	0.2479
Mercury	81631-01-01 00:15 G	31536170.40	31536170.51	31536170.62	0.2707	0.1554
Mercury	81633-07-01 22:34 G	31537083.33	31537083.44	31537083.54	0.2619	0.1258
Mercury	81644-01-04 00:44 G	31540921.40	31540921.53	31540921.67	0.2702	0.0493
Mercury	81646-07-04 17:32 G	31541834.11	31541834.23	31541834.35	0.2618	0.0054
Mercury	81657-01-06 00:58 G	31545672.47	31545672.54	31545672.61	0.2701	0.2285
Mercury	81659-07-07 12:44 G	31546584.93	31546585.03	31546585.14	0.2619	0.1350
Mercury	81666-06-30 08:10 G	31549134.79	31549134.84	31549134.90	0.2623	0.2297
Mercury	81677-01-01 06:00 G	31552972.62	31552972.75	31552972.88	0.2707	0.1020
Mercury	81679-07-03 03:36 G	31553885.53	31553885.65	31553885.76	0.2620	0.0900
Mercury	81690-01-04 06:29 G	31557723.64	31557723.77	31557723.91	0.2702	0.0728
Mercury	81692-07-04 22:34 G	31558636.31	31558636.44	31558636.56	0.2618	0.0255
Venus	81702-05-08 21:08 G	31562230.24	31562230.38	31562230.52	0.2645	0.1251
Mercury	81703-01-08 06:29 G	31562474.74	31562474.77	31562474.80	0.2702	0.2622
Mercury	81705-07-08 18:00 G	31563387.15	31563387.25	31563387.34	0.2620	0.1592
Mercury	81709-12-31 10:20 G	31565023.92	31565023.93	31565023.94	0.2709	0.2689
Venus	81710-05-06 14:39 G	31565150.02	31565150.11	31565150.19	0.2650	0.2155
Mercury	81712-07-01 13:12 G	31565936.97	31565937.05	31565937.14	0.2622	0.1909
Mercury	81723-01-03 11:46 G	31569774.86	31569774.99	31569775.12	0.2705	0.0835
Mercury	81725-07-04 08:24 G	31570687.74	31570687.85	31570687.97	0.2619	0.0778
Mercury	81736-01-06 12:15 G	31574525.89	31574526.01	31574526.13	0.2701	0.1230
Mercury	81738-07-07 03:22 G	31575438.53	31575438.64	31575438.76	0.2618	0.0603
Mercury	81751-07-09 23:03 G	31580189.37	31580189.46	31580189.54	0.2622	0.1824
Mercury	81756-01-01 16:20 G	31581826.12	31581826.18	31581826.24	0.2709	0.2438
Mercury	81758-07-02 18:29 G	31582739.18	31582739.27	31582739.35	0.2622	0.1782
Mercury	81769-01-03 17:17 G	31586577.09	31586577.22	31586577.36	0.2704	0.0318

Mercury	81771-07-05 13:27 G	31587489.94	31587490.06	31587490.18	0.2619	0.0417
Mercury	81782-01-06 18:00 G	31591328.13	31591328.25	31591328.36	0.2702	0.1418
Mercury	81784-07-07 08:39 G	31592240.74	31592240.86	31592240.98	0.2618	0.0741
Mercury	81797-07-10 04:05 G	31596991.60	31596991.67	31596991.73	0.2623	0.2170
Venus	81799-11-11 15:08 G	31597846.02	31597846.13	31597846.24	0.2691	0.1906
Mercury	81802-01-02 22:05 G	31598628.33	31598628.42	31598628.52	0.2708	0.1959
Mercury	81804-07-03 23:17 G	31599541.37	31599541.47	31599541.57	0.2621	0.1425
Venus	81807-11-10 08:53 G	31600765.73	31600765.87	31600766.02	0.2694	0.0658
Mercury	81815-01-05 23:17 G	31603379.33	31603379.47	31603379.61	0.2703	0.0083
Mercury	81817-07-06 18:15 G	31604292.14	31604292.26	31604292.38	0.2618	0.0297
Mercury	81828-01-08 23:17 G	31608130.38	31608130.47	31608130.57	0.2702	0.1912
Mercury	81830-07-09 13:27 G	31609042.95	31609043.06	31609043.18	0.2619	0.1125
Mercury	81837-07-02 09:08 G	31611592.85	31611592.88	31611592.91	0.2624	0.2517
Mercury	81843-07-12 09:08 G	31613793.83	31613793.88	31613793.93	0.2623	0.2324
Mercury	81848-01-04 04:05 G	31615430.55	31615430.67	31615430.78	0.2706	0.1613
Mercury	81850-07-05 04:20 G	31616343.57	31616343.68	31616343.78	0.2621	0.1256
Mercury	81861-01-06 05:03 G	31620181.57	31620181.71	31620181.85	0.2703	0.0411
Mercury	81863-07-07 23:17 G	31621094.35	31621094.47	31621094.59	0.2618	0.0087
Mercury	81874-01-09 05:03 G	31624932.62	31624932.71	31624932.79	0.2701	0.2092
Mercury	81876-07-09 18:29 G	31625845.17	31625845.27	31625845.38	0.2620	0.1244
Mercury	81883-07-03 14:10 G	31628395.03	31628395.09	31628395.15	0.2624	0.2203
Mercury	81894-01-04 09:51 G	31632232.79	31632232.91	31632233.03	0.2705	0.1276
Mercury	81896-07-05 09:08 G	31633145.77	31633145.88	31633146.00	0.2619	0.0998
Mercury	81907-01-08 10:34 G	31636983.81	31636983.94	31636984.08	0.2703	0.0677
Mercury	81909-07-09 04:20 G	31637896.56	31637896.68	31637896.80	0.2618	0.0247
Mercury	81920-01-11 10:34 G	31641734.90	31641734.94	31641734.98	0.2701	0.2568
Mercury	81922-07-11 23:32 G	31642647.38	31642647.48	31642647.58	0.2621	0.1614
Mercury	81929-07-04 19:12 G	31645197.23	31645197.30	31645197.37	0.2624	0.2039
Mercury	81940-01-06 15:36 G	31649035.02	31649035.15	31649035.29	0.2705	0.0801
Mercury	81942-07-07 14:10 G	31649947.97	31649948.09	31649948.21	0.2618	0.0711

Mercury	81953-01-08 16:05 G	31653786.05	31653786.17	31653786.30	0.2702	0.1032
Venus	81953-05-08 21:22 G	31653906.23	31653906.39	31653906.55	0.2641	0.0919
Mercury	81955-07-10 09:22 G	31654698.77	31654698.89	31654699.01	0.2618	0.0539
Mercury	81968-07-12 04:34 G	31659449.60	31659449.69	31659449.78	0.2620	0.1779
Mercury	81973-01-03 19:56 G	31661086.27	31661086.33	31661086.39	0.2708	0.2431
Mercury	81975-07-06 00:15 G	31661999.41	31661999.51	31661999.60	0.2622	0.1685
Mercury	81986-01-06 21:36 G	31665837.26	31665837.40	31665837.53	0.2705	0.0559
Mercury	81988-07-07 19:12 G	31666750.18	31666750.30	31666750.42	0.2618	0.0526
Mercury	81999-01-09 21:51 G	31670588.29	31670588.41	31670588.52	0.2701	0.1421

83RD MILLENNIUM CE

This is a list of transits visible from Moon in the 83rd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	82001-07-10 14:10 G		31671500.98	31671501.09	31671501.21	0.2619	0.0790	
Mercury	82014-07-13 09:51 G		31676251.84	31676251.91	31676251.97	0.2621	0.2135	
Mercury	82019-01-05 01:56 G		31677888.51	31677888.58	31677888.66	0.2707	0.2223	
Mercury	82021-07-06 05:03 G		31678801.62	31678801.71	31678801.81	0.2620	0.1570	
Mercury	82032-01-08 03:08 G		31682639.49	31682639.63	31682639.77	0.2704	0.0052	
Mercury	82034-07-09 00:15 G		31683552.39	31683552.51	31683552.63	0.2618	0.0181	
Mercury	82045-01-10 03:36 G		31687390.54	31687390.65	31687390.75	0.2701	0.1681	
Mercury	82047-07-11 19:12 G		31688303.19	31688303.30	31688303.42	0.2619	0.0993	
Venus	82050-11-11 19:41 G		31689522.16	31689522.32	31689522.48	0.2685	0.0209	
Mercury	82054-07-04 14:53 G		31690853.10	31690853.12	31690853.14	0.2626	0.2572	

Mercury	82060-07-13 14:53 G	31693054.07	31693054.12	31693054.17	0.2623	0.2367
Mercury	82065-01-05 07:56 G	31694690.72	31694690.83	31694690.94	0.2707	0.1651
Mercury	82067-07-07 10:05 G	31695603.82	31695603.92	31695604.03	0.2620	0.1176
Mercury	82078-01-08 08:39 G	31699441.73	31699441.86	31699442.00	0.2703	0.0159
Mercury	82080-07-09 05:17 G	31700354.59	31700354.72	31700354.84	0.2618	0.0092
Mercury	82091-01-11 09:08 G	31704192.80	31704192.88	31704192.96	0.2701	0.2163
Mercury	82093-07-12 00:15 G	31705105.41	31705105.51	31705105.62	0.2619	0.1340
Mercury	82100-07-05 19:56 G	31707655.27	31707655.33	31707655.39	0.2624	0.2238
Mercury	82106-07-15 19:56 G	31709856.33	31709856.33	31709856.33	0.2624	0.2617
Mercury	82111-01-07 13:41 G	31711492.95	31711493.07	31711493.19	0.2707	0.1432
Mercury	82113-07-08 15:08 G	31712406.02	31712406.13	31712406.24	0.2620	0.1057
Mercury	82124-01-10 14:24 G	31716243.97	31716244.10	31716244.24	0.2702	0.0666
Mercury	82126-07-11 10:05 G	31717156.80	31717156.92	31717157.04	0.2618	0.0318
Mercury	82137-01-12 14:53 G	31720995.05	31720995.12	31720995.18	0.2702	0.2359
Mercury	82139-07-14 05:17 G	31721907.62	31721907.72	31721907.82	0.2619	0.1500
Mercury	82146-07-07 00:58 G	31724457.47	31724457.54	31724457.62	0.2622	0.2018
Mercury	82157-01-07 19:27 G	31728295.18	31728295.31	31728295.44	0.2705	0.0954
Mercury	82159-07-09 20:10 G	31729208.22	31729208.34	31729208.46	0.2619	0.0695
Mercury	82170-01-10 20:24 G	31733046.21	31733046.35	31733046.48	0.2702	0.0875
Mercury	82172-07-11 15:08 G	31733959.01	31733959.13	31733959.25	0.2618	0.0439
Mercury	82185-07-14 10:20 G	31738709.85	31738709.93	31738710.02	0.2621	0.1881
Venus	82188-05-11 21:51 G	31739742.26	31739742.41	31739742.56	0.2642	0.1105
Mercury	82192-07-07 06:00 G	31741259.67	31741259.75	31741259.84	0.2622	0.1769
Venus	82196-05-09 11:46 G	31742661.88	31742661.99	31742662.10	0.2649	0.1869
Mercury	82203-01-10 01:12 G	31745097.41	31745097.55	31745097.68	0.2704	0.0626
Mercury	82205-07-11 00:58 G	31746010.42	31746010.54	31746010.66	0.2619	0.0537
Mercury	82216-01-13 01:56 G	31749848.46	31749848.58	31749848.70	0.2702	0.1369
Mercury	82218-07-13 20:10 G	31750761.22	31750761.34	31750761.45	0.2618	0.0825
Mercury	82231-07-16 15:22 G	31755512.06	31755512.14	31755512.22	0.2622	0.2003
Mercury	82236-01-08 05:32 G	31757148.66	31757148.73	31757148.81	0.2709	0.2220

Mercury	82238-07-09 11:03 G	31758061.87	31758061.96	31758062.06	0.2622	0.1482
Mercury	82249-01-10 06:58 G	31761899.65	31761899.79	31761899.93	0.2703	0.0277
Mercury	82251-07-12 06:00 G	31762812.63	31762812.75	31762812.87	0.2618	0.0264
Mercury	82262-01-13 07:27 G	31766650.70	31766650.81	31766650.92	0.2702	0.1620
Mercury	82264-07-14 00:58 G	31767563.43	31767563.54	31767563.66	0.2619	0.0983
Mercury	82271-07-07 20:53 G	31770113.33	31770113.37	31770113.41	0.2625	0.2456
Mercury	82277-07-16 20:24 G	31772314.30	31772314.35	31772314.40	0.2622	0.2405
Mercury	82282-01-08 11:32 G	31773950.89	31773950.98	31773951.07	0.2707	0.1981
Mercury	82284-07-09 16:05 G	31774864.07	31774864.17	31774864.27	0.2621	0.1299
Venus	82293-11-13 11:46 G	31778277.83	31778277.99	31778278.14	0.2687	0.0390
Mercury	82295-01-11 12:44 G	31778701.90	31778702.03	31778702.17	0.2703	0.0187
Mercury	82297-07-12 11:03 G	31779614.84	31779614.96	31779615.08	0.2618	0.0020
Mercury	82308-01-15 12:58 G	31783452.95	31783453.04	31783453.14	0.2702	0.1980
Mercury	82310-07-16 06:00 G	31784365.64	31784365.75	31784365.86	0.2620	0.1278
Mercury	82317-07-09 01:56 G	31786915.53	31786915.58	31786915.63	0.2625	0.2348
Mercury	82323-07-19 01:41 G	31789116.54	31789116.57	31789116.59	0.2622	0.2559
Mercury	82328-01-10 17:17 G	31790753.11	31790753.22	31790753.34	0.2705	0.1409
Mercury	82330-07-11 20:53 G	31791666.26	31791666.37	31791666.49	0.2620	0.0961
Mercury	82341-01-12 18:29 G	31795504.14	31795504.27	31795504.41	0.2703	0.0432
Mercury	82343-07-14 16:05 G	31796417.05	31796417.17	31796417.29	0.2618	0.0224
Mercury	82354-01-15 18:44 G	31800255.22	31800255.28	31800255.34	0.2701	0.2364
Mercury	82356-07-16 11:03 G	31801167.86	31801167.96	31801168.06	0.2620	0.1537
Mercury	82363-07-10 06:58 G	31803717.71	31803717.79	31803717.87	0.2624	0.1957
Mercury	82374-01-10 23:17 G	31807555.35	31807555.47	31807555.60	0.2705	0.1213
Mercury	82376-07-12 01:56 G	31808468.47	31808468.58	31808468.70	0.2619	0.0840
Mercury	82387-01-14 00:15 G	31812306.37	31812306.51	31812306.64	0.2702	0.0916
Mercury	82389-07-14 20:53 G	31813219.25	31813219.37	31813219.49	0.2618	0.0548
Mercury	82400-01-17 00:29 G	31817057.50	31817057.52	31817057.54	0.2701	0.2648
Mercury	82402-07-17 16:05 G	31817970.08	31817970.17	31817970.26	0.2620	0.1764
Mercury	82409-07-10 12:00 G	31820519.92	31820520.00	31820520.08	0.2623	0.1831

Mercury	82420-01-12 05:17 G	31824357.58	31824357.72	31824357.85	0.2705	0.0638
Mercury	82422-07-13 06:58 G	31825270.67	31825270.79	31825270.91	0.2618	0.0442
Mercury	82433-01-14 05:46 G	31829108.61	31829108.74	31829108.87	0.2701	0.1095
Mercury	82435-07-16 01:56 G	31830021.46	31830021.58	31830021.69	0.2619	0.0681
Venus	82439-05-12 23:46 G	31831418.34	31831418.49	31831418.64	0.2647	0.1008
Mercury	82448-07-17 21:08 G	31834772.31	31834772.38	31834772.45	0.2621	0.2104
Mercury	82453-01-09 09:22 G	31836408.83	31836408.89	31836408.95	0.2707	0.2408
Mercury	82455-07-11 16:48 G	31837322.11	31837322.20	31837322.30	0.2621	0.1502
Mercury	82466-01-12 11:03 G	31841159.82	31841159.96	31841160.09	0.2704	0.0439
Mercury	82468-07-13 12:00 G	31842072.88	31842073.00	31842073.12	0.2618	0.0324
Mercury	82479-01-15 11:32 G	31845910.87	31845910.98	31845911.09	0.2701	0.1641
Mercury	82481-07-16 06:44 G	31846823.67	31846823.78	31846823.89	0.2618	0.1065
Mercury	82488-07-09 02:53 G	31849373.60	31849373.62	31849373.64	0.2626	0.2566
Mercury	82494-07-19 02:24 G	31851574.54	31851574.60	31851574.65	0.2622	0.2279
Mercury	82499-01-10 15:22 G	31853211.05	31853211.14	31853211.23	0.2707	0.2006
Mercury	82501-07-12 21:51 G	31854124.31	31854124.41	31854124.52	0.2620	0.1295
Mercury	82512-01-14 16:34 G	31857962.05	31857962.19	31857962.33	0.2703	0.0037
Mercury	82514-07-15 16:48 G	31858875.08	31858875.20	31858875.32	0.2618	0.0026
Mercury	82525-01-16 17:17 G	31862713.12	31862713.22	31862713.32	0.2701	0.1832
Mercury	82527-07-18 11:46 G	31863625.89	31863625.99	31863626.10	0.2618	0.1189
Mercury	82534-07-11 07:56 G	31866175.77	31866175.83	31866175.89	0.2624	0.2261
Venus	82536-11-15 23:46 G	31867034.34	31867034.49	31867034.64	0.2690	0.0325
Venus	82544-11-13 16:34 G	31869954.13	31869954.19	31869954.26	0.2683	0.2444
Mercury	82545-01-11 21:22 G	31870013.28	31870013.39	31870013.50	0.2707	0.1657
Mercury	82547-07-14 02:53 G	31870926.51	31870926.62	31870926.73	0.2620	0.1021
Mercury	82558-01-14 22:20 G	31874764.29	31874764.43	31874764.57	0.2702	0.0354
Mercury	82560-07-15 21:36 G	31875677.28	31875677.40	31875677.53	0.2618	0.0210
Mercury	82571-01-17 22:48 G	31879515.38	31879515.45	31879515.52	0.2702	0.2320
Mercury	82573-07-18 17:03 G	31880428.11	31880428.21	31880428.30	0.2619	0.1585
Mercury	82580-07-11 12:58 G	31882977.97	31882978.04	31882978.11	0.2623	0.2099

Mercury	82591-01-13 03:08 G	31886815.50	31886815.63	31886815.75	0.2706	0.1196
Mercury	82593-07-14 07:56 G	31887728.72	31887728.83	31887728.95	0.2620	0.0757
Mercury	82604-01-17 04:05 G	31891566.54	31891566.67	31891566.81	0.2702	0.0729
Mercury	82606-07-18 02:39 G	31892479.49	31892479.61	31892479.73	0.2618	0.0485
Mercury	82617-01-19 04:20 G	31896317.64	31896317.68	31896317.72	0.2702	0.2571
Mercury	82619-07-20 21:51 G	31897230.32	31897230.41	31897230.50	0.2621	0.1739
Mercury	82626-07-13 18:00 G	31899780.16	31899780.25	31899780.34	0.2622	0.1721
Mercury	82637-01-14 08:53 G	31903617.74	31903617.87	31903618.00	0.2704	0.0962
Mercury	82639-07-16 12:44 G	31904530.92	31904531.03	31904531.15	0.2619	0.0574
Mercury	82650-01-17 09:51 G	31908368.78	31908368.91	31908369.04	0.2702	0.1131
Mercury	82652-07-18 07:56 G	31909281.71	31909281.83	31909281.94	0.2618	0.0754
Mercury	82665-07-21 02:53 G	31914032.55	31914032.62	31914032.70	0.2622	0.2056
Mercury	82670-01-12 13:12 G	31915669.02	31915669.05	31915669.07	0.2709	0.2663
Mercury	82672-07-13 23:03 G	31916582.36	31916582.46	31916582.55	0.2622	0.1606
Venus	82674-05-17 00:58 G	31917254.42	31917254.54	31917254.67	0.2641	0.1832
Venus	82682-05-14 12:00 G	31920173.86	31920174.00	31920174.14	0.2647	0.1361
Mercury	82683-01-15 14:39 G	31920419.97	31920420.11	31920420.25	0.2703	0.0395
Mercury	82685-07-16 17:46 G	31921333.12	31921333.24	31921333.36	0.2618	0.0234
Mercury	82696-01-18 15:22 G	31925171.02	31925171.14	31925171.26	0.2702	0.1395
Mercury	82698-07-19 12:44 G	31926083.92	31926084.03	31926084.15	0.2618	0.0969
Mercury	82705-07-13 08:53 G	31928633.86	31928633.87	31928633.88	0.2625	0.2606
Mercury	82711-07-23 07:56 G	31930834.78	31930834.83	31930834.89	0.2622	0.2311
Mercury	82716-01-14 18:58 G	31932471.20	31932471.29	31932471.38	0.2707	0.2097
Mercury	82718-07-16 03:51 G	31933384.55	31933384.66	31933384.77	0.2621	0.1224
Mercury	82729-01-16 20:39 G	31937222.22	31937222.36	31937222.50	0.2703	0.0202
Mercury	82731-07-18 22:48 G	31938135.33	31938135.45	31938135.57	0.2618	0.0116
Mercury	82742-01-19 20:53 G	31941973.28	31941973.37	31941973.47	0.2702	0.1879
Mercury	82744-07-20 17:46 G	31942886.13	31942886.24	31942886.34	0.2619	0.1295
Mercury	82751-07-14 13:56 G	31945436.02	31945436.08	31945436.13	0.2625	0.2274
Mercury	82757-07-23 12:58 G	31947637.02	31947637.04	31947637.06	0.2622	0.2569

Mercury	82762-01-15 00:58 G	31949273.44	31949273.54	31949273.64	0.2705	0.1822
Mercury	82764-07-16 08:53 G	31950186.76	31950186.87	31950186.97	0.2620	0.1103
Mercury	82775-01-18 02:24 G	31954024.46	31954024.60	31954024.73	0.2703	0.0362
Mercury	82777-07-19 03:51 G	31954937.54	31954937.66	31954937.78	0.2618	0.0300
Venus	82779-11-18 18:44 G	31955790.12	31955790.28	31955790.44	0.2679	0.0361
Mercury	82788-01-21 02:39 G	31958775.53	31958775.61	31958775.70	0.2701	0.2065
Mercury	82790-07-21 22:34 G	31959688.34	31959688.44	31959688.54	0.2620	0.1427
Mercury	82797-07-14 18:44 G	31962238.21	31962238.28	31962238.35	0.2625	0.2082
Mercury	82808-01-16 06:44 G	31966075.66	31966075.78	31966075.91	0.2705	0.1351
Mercury	82810-07-17 13:41 G	31966988.96	31966989.07	31966989.19	0.2619	0.0760
Mercury	82821-01-18 07:56 G	31970826.69	31970826.83	31970826.97	0.2702	0.0550
Mercury	82823-07-20 08:39 G	31971739.74	31971739.86	31971739.98	0.2618	0.0419
Mercury	82834-01-21 08:24 G	31975577.83	31975577.85	31975577.89	0.2701	0.2622
Mercury	82836-07-22 03:36 G	31976490.57	31976490.65	31976490.74	0.2620	0.1832
Mercury	82843-07-15 23:46 G	31979040.41	31979040.49	31979040.58	0.2623	0.1814
Mercury	82854-01-16 12:44 G	31982877.90	31982878.03	31982878.16	0.2705	0.0995
Mercury	82856-07-17 18:44 G	31983791.17	31983791.28	31983791.40	0.2618	0.0570
Mercury	82867-01-19 13:27 G	31987628.93	31987629.06	31987629.19	0.2701	0.1017
Mercury	82869-07-20 13:27 G	31988541.95	31988542.06	31988542.18	0.2618	0.0758
Mercury	82882-07-23 08:39 G	31993292.78	31993292.86	31993292.94	0.2620	0.1958
Mercury	82887-01-14 16:34 G	31994929.17	31994929.19	31994929.22	0.2707	0.2633
Mercury	82889-07-16 04:48 G	31995842.60	31995842.70	31995842.80	0.2621	0.1524
Mercury	82900-01-17 18:29 G	31999680.13	31999680.27	31999680.41	0.2704	0.0628
Mercury	82902-07-19 23:46 G	32000593.37	32000593.49	32000593.61	0.2619	0.0274
Mercury	82913-01-20 19:27 G	32004431.19	32004431.31	32004431.43	0.2701	0.1327
Mercury	82915-07-22 18:29 G	32005344.16	32005344.27	32005344.38	0.2618	0.0933
Venus	82917-05-19 04:34 G	32006010.62	32006010.69	32006010.77	0.2654	0.2274
Mercury	82922-07-15 14:39 G	32007894.08	32007894.11	32007894.14	0.2627	0.2522
Venus	82925-05-16 22:34 G	32008930.29	32008930.44	32008930.58	0.2653	0.0950
Mercury	82928-07-24 13:41 G	32010095.02	32010095.07	32010095.12	0.2621	0.2360

Mercury	82933-01-15 22:48 G	32011731.38	32011731.45	32011731.51	0.2707	0.2407
Mercury	82935-07-18 09:51 G	32012644.81	32012644.91	32012645.01	0.2620	0.1353
Mercury	82946-01-19 00:15 G	32016482.37	32016482.51	32016482.65	0.2703	0.0203
Mercury	82948-07-20 04:34 G	32017395.57	32017395.69	32017395.82	0.2618	0.0108
Mercury	82959-01-22 01:12 G	32021233.44	32021233.55	32021233.65	0.2701	0.1723
Mercury	82961-07-22 23:32 G	32022146.37	32022146.48	32022146.58	0.2618	0.1246
Mercury	82968-07-15 19:41 G	32024696.28	32024696.32	32024696.37	0.2625	0.2398
Mercury	82974-07-25 18:44 G	32026897.25	32026897.28	32026897.31	0.2623	0.2526
Mercury	82979-01-17 04:34 G	32028533.59	32028533.69	32028533.79	0.2707	0.1817
Mercury	82981-07-18 14:53 G	32029447.01	32029447.12	32029447.23	0.2620	0.0987
Mercury	82992-01-20 06:00 G	32033284.61	32033284.75	32033284.89	0.2702	0.0068
Mercury	82994-07-21 09:36 G	32034197.78	32034197.90	32034198.02	0.2618	0.0175

84TH MILLENNIUM CE

This is a list of transits visible from Moon in the 84th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	83005-01-23 06:44 G		32038035.70	32038035.78	32038035.87	0.2702	0.2104	
Mercury	83007-07-25 04:34 G		32038948.59	32038948.69	32038948.79	0.2619	0.1494	
Mercury	83014-07-18 00:44 G		32041498.46	32041498.53	32041498.61	0.2623	0.2014	
Venus	83022-11-21 01:27 G		32044546.42	32044546.56	32044546.70	0.2691	0.0744	
Mercury	83025-01-18 10:34 G		32045335.83	32045335.94	32045336.05	0.2706	0.1611	
Mercury	83027-07-20 19:56 G		32046249.21	32046249.33	32046249.44	0.2620	0.0863	
Venus	83030-11-18 21:22 G		32047466.34	32047466.39	32047466.44	0.2686	0.2526	

Mercury	83038-01-21 11:46 G	32050086.86	32050086.99	32050087.13	0.2702	0.0606
Mercury	83040-07-22 14:24 G	32050999.98	32051000.10	32051000.22	0.2618	0.0505
Mercury	83051-01-24 12:15 G	32054837.95	32054838.01	32054838.08	0.2702	0.2364
Mercury	83053-07-25 09:36 G	32055750.81	32055750.90	32055750.99	0.2620	0.1727
Mercury	83060-07-18 05:46 G	32058300.66	32058300.74	32058300.83	0.2623	0.1873
Mercury	83071-01-19 16:20 G	32062138.05	32062138.18	32062138.31	0.2704	0.1062
Mercury	83073-07-21 00:44 G	32063051.41	32063051.53	32063051.64	0.2619	0.0502
Mercury	83084-01-22 17:46 G	32066889.10	32066889.24	32066889.37	0.2702	0.0808
Mercury	83086-07-23 19:27 G	32067802.19	32067802.31	32067802.43	0.2618	0.0647
Mercury	83099-07-26 14:24 G	32072553.03	32072553.10	32072553.18	0.2621	0.2062
Mercury	83106-07-20 10:48 G	32075102.86	32075102.95	32075103.05	0.2623	0.1517
Mercury	83117-01-20 22:20 G	32078940.29	32078940.43	32078940.56	0.2703	0.0809
Mercury	83119-07-23 05:32 G	32079853.61	32079853.73	32079853.85	0.2618	0.0373
Mercury	83130-01-23 23:17 G	32083691.35	32083691.47	32083691.59	0.2702	0.1332
Mercury	83132-07-25 00:29 G	32084604.41	32084604.52	32084604.63	0.2618	0.1031
Mercury	83139-07-18 20:53 G	32087154.36	32087154.37	32087154.37	0.2626	0.2619
Mercury	83145-07-27 19:27 G	32089355.25	32089355.31	32089355.38	0.2622	0.2208
Mercury	83150-01-19 02:10 G	32090991.53	32090991.59	32090991.65	0.2707	0.2456
Mercury	83152-07-20 15:51 G	32091905.06	32091905.16	32091905.26	0.2622	0.1343
Mercury	83163-01-22 04:05 G	32095742.53	32095742.67	32095742.81	0.2703	0.0307
Mercury	83165-07-23 10:34 G	32096655.82	32096655.94	32096656.06	0.2618	0.0084
Venus	83168-05-18 15:08 G	32097685.98	32097686.13	32097686.29	0.2645	0.1195
Mercury	83176-01-25 04:48 G	32100493.59	32100493.70	32100493.82	0.2702	0.1532
Mercury	83178-07-26 05:17 G	32101406.61	32101406.72	32101406.83	0.2619	0.1156
Mercury	83185-07-19 01:56 G	32103956.52	32103956.58	32103956.63	0.2625	0.2299
Mercury	83191-07-29 00:29 G	32106157.52	32106157.52	32106157.53	0.2622	0.2620
Mercury	83196-01-20 08:10 G	32107793.76	32107793.84	32107793.93	0.2705	0.2119
Mercury	83198-07-21 20:39 G	32108707.25	32108707.36	32108707.47	0.2621	0.1072
Mercury	83209-01-22 09:51 G	32112544.77	32112544.91	32112545.06	0.2703	0.0074
Mercury	83211-07-24 15:36 G	32113458.03	32113458.15	32113458.27	0.2618	0.0177

Mercury	83222-01-25 10:34 G	32117295.85	32117295.94	32117296.03	0.2701	0.2014
Mercury	83224-07-26 10:20 G	32118208.83	32118208.93	32118209.03	0.2620	0.1514
Mercury	83231-07-20 06:44 G	32120758.72	32120758.78	32120758.85	0.2625	0.2136
Mercury	83242-01-20 14:10 G	32124595.98	32124596.09	32124596.20	0.2705	0.1587
Mercury	83244-07-22 01:41 G	32125509.45	32125509.57	32125509.68	0.2619	0.0799
Mercury	83255-01-23 15:36 G	32129347.01	32129347.15	32129347.29	0.2703	0.0378
Mercury	83257-07-24 20:24 G	32130260.23	32130260.35	32130260.47	0.2618	0.0464
Venus	83265-11-22 03:36 G	32133302.48	32133302.65	32133302.81	0.2675	0.0187
Mercury	83268-01-26 16:20 G	32134098.11	32134098.18	32134098.25	0.2701	0.2305
Mercury	83270-07-27 15:22 G	32135011.05	32135011.14	32135011.23	0.2620	0.1688
Mercury	83277-07-20 11:46 G	32137560.90	32137560.99	32137561.08	0.2624	0.1775
Mercury	83288-01-21 20:10 G	32141398.22	32141398.34	32141398.46	0.2705	0.1339
Mercury	83290-07-23 06:44 G	32142311.66	32142311.78	32142311.89	0.2619	0.0615
Mercury	83301-01-24 21:08 G	32146149.25	32146149.38	32146149.52	0.2702	0.0803
Mercury	83303-07-27 01:12 G	32147062.44	32147062.55	32147062.67	0.2618	0.0711
Mercury	83316-07-28 20:24 G	32151813.27	32151813.35	32151813.42	0.2620	0.2030
Mercury	83323-07-22 16:48 G	32154363.10	32154363.20	32154363.29	0.2622	0.1658
Mercury	83334-01-23 01:56 G	32158200.44	32158200.58	32158200.72	0.2705	0.0782
Mercury	83336-07-24 11:32 G	32159113.86	32159113.98	32159114.10	0.2619	0.0264
Mercury	83347-01-26 02:53 G	32162951.50	32162951.62	32162951.75	0.2701	0.1061
Mercury	83349-07-27 06:15 G	32163864.65	32163864.76	32163864.87	0.2618	0.0903
Mercury	83362-07-30 01:27 G	32168615.50	32168615.56	32168615.62	0.2621	0.2265
Mercury	83367-01-21 06:00 G	32170251.70	32170251.75	32170251.79	0.2707	0.2532
Mercury	83369-07-22 21:36 G	32171165.30	32171165.40	32171165.51	0.2621	0.1267
Mercury	83380-01-24 07:41 G	32175002.68	32175002.82	32175002.96	0.2703	0.0581
Mercury	83382-07-25 16:34 G	32175916.07	32175916.19	32175916.31	0.2619	0.0134
Mercury	83393-01-26 08:53 G	32179753.76	32179753.87	32179753.98	0.2701	0.1597
Mercury	83395-07-28 11:17 G	32180666.86	32180666.97	32180667.07	0.2618	0.1251
Mercury	83402-07-22 07:41 G	32183216.77	32183216.82	32183216.87	0.2626	0.2334
Venus	83403-05-24 00:15 G	32183522.40	32183522.51	32183522.62	0.2654	0.1854

Mercury	83408-07-31 06:29 G	32185417.74	32185417.77	32185417.80	0.2623	0.2514
Venus	83411-05-21 18:00 G	32186442.11	32186442.25	32186442.40	0.2658	0.0710
Mercury	83413-01-22 11:46 G	32187053.92	32187053.99	32187054.07	0.2707	0.2268
Mercury	83415-07-25 02:39 G	32187967.50	32187967.61	32187967.72	0.2621	0.1141
Mercury	83426-01-25 13:27 G	32191804.92	32191805.06	32191805.20	0.2702	0.0048
Mercury	83428-07-26 21:22 G	32192718.27	32192718.39	32192718.51	0.2618	0.0238
Mercury	83439-01-28 14:39 G	32196556.00	32196556.11	32196556.21	0.2702	0.1802
Mercury	83441-07-29 16:20 G	32197469.08	32197469.18	32197469.28	0.2618	0.1409
Mercury	83448-07-22 12:44 G	32200018.96	32200019.03	32200019.10	0.2624	0.2107
Mercury	83459-01-23 17:46 G	32203856.13	32203856.24	32203856.34	0.2706	0.1778
Mercury	83461-07-25 07:41 G	32204769.70	32204769.82	32204769.93	0.2621	0.0775
Mercury	83472-01-26 19:12 G	32208607.16	32208607.30	32208607.45	0.2702	0.0221
Mercury	83474-07-28 02:10 G	32209520.47	32209520.59	32209520.71	0.2618	0.0369
Mercury	83485-01-28 20:10 G	32213358.27	32213358.34	32213358.41	0.2702	0.2314
Mercury	83487-07-30 21:08 G	32214271.29	32214271.38	32214271.47	0.2620	0.1786
Mercury	83494-07-23 17:46 G	32216821.16	32216821.24	32216821.32	0.2623	0.1861
Mercury	83505-01-24 23:32 G	32220658.36	32220658.48	32220658.60	0.2704	0.1407
Mercury	83507-07-27 12:29 G	32221571.91	32221572.02	32221572.14	0.2620	0.0612
Venus	83508-11-25 02:53 G	32222058.48	32222058.62	32222058.77	0.2688	0.0539
Mercury	83518-01-28 01:12 G	32225409.41	32225409.55	32225409.68	0.2702	0.0716
Mercury	83520-07-29 07:12 G	32226322.69	32226322.80	32226322.92	0.2618	0.0742
Mercury	83531-01-31 01:41 G	32230160.53	32230160.57	32230160.62	0.2702	0.2521
Mercury	83533-08-01 02:10 G	32231073.51	32231073.59	32231073.67	0.2621	0.1914
Mercury	83540-07-24 22:48 G	32233623.35	32233623.45	32233623.54	0.2623	0.1565
Mercury	83551-01-26 05:32 G	32237460.60	32237460.73	32237460.86	0.2703	0.1061
Mercury	83553-07-27 17:32 G	32238374.11	32238374.23	32238374.35	0.2619	0.0344
Mercury	83564-01-29 06:58 G	32242211.65	32242211.79	32242211.92	0.2702	0.1008
Mercury	83566-07-30 12:15 G	32243124.90	32243125.01	32243125.12	0.2618	0.0904
Mercury	83573-07-23 08:39 G	32245674.84	32245674.86	32245674.89	0.2626	0.2560
Mercury	83579-08-02 06:58 G	32247875.74	32247875.79	32247875.85	0.2622	0.2306

Mercury	83586-07-26 03:36 G	32250425.55	32250425.65	32250425.76	0.2623	0.1387
Mercury	83597-01-26 11:17 G	32254262.84	32254262.97	32254263.11	0.2703	0.0564
Mercury	83599-07-28 22:20 G	32255176.31	32255176.43	32255176.55	0.2618	0.0076
Mercury	83610-01-29 12:29 G	32259013.90	32259014.02	32259014.14	0.2702	0.1370
Mercury	83612-07-30 17:03 G	32259927.11	32259927.21	32259927.32	0.2619	0.1206
Mercury	83619-07-24 13:41 G	32262477.03	32262477.07	32262477.11	0.2626	0.2444
Mercury	83625-08-02 12:15 G	32264677.97	32264678.01	32264678.05	0.2621	0.2465
Mercury	83630-01-24 15:08 G	32266314.06	32266314.13	32266314.21	0.2706	0.2274
Mercury	83632-07-26 08:39 G	32267227.75	32267227.86	32267227.97	0.2621	0.1038
Mercury	83643-01-27 17:17 G	32271065.08	32271065.22	32271065.36	0.2703	0.0291
Mercury	83645-07-29 03:22 G	32271978.52	32271978.64	32271978.76	0.2618	0.0145
Venus	83654-05-22 20:24 G	32275198.19	32275198.35	32275198.51	0.2647	0.0958
Mercury	83656-01-30 18:15 G	32275816.15	32275816.26	32275816.36	0.2701	0.1801
Mercury	83658-07-31 22:05 G	32276729.32	32276729.42	32276729.52	0.2619	0.1455
Mercury	83665-07-24 18:44 G	32279279.21	32279279.28	32279279.35	0.2626	0.2051
Mercury	83676-01-25 21:22 G	32283116.30	32283116.39	32283116.48	0.2705	0.2051
Mercury	83678-07-27 13:27 G	32284029.95	32284030.06	32284030.18	0.2620	0.0922
Mercury	83689-01-27 23:03 G	32287867.32	32287867.46	32287867.60	0.2703	0.0236
Mercury	83691-07-30 08:24 G	32288780.73	32288780.85	32288780.96	0.2618	0.0484
Mercury	83702-02-01 00:00 G	32292618.41	32292618.50	32292618.59	0.2701	0.2083
Mercury	83704-08-02 02:53 G	32293531.53	32293531.62	32293531.72	0.2619	0.1673
Mercury	83711-07-26 23:46 G	32296081.41	32296081.49	32296081.57	0.2625	0.1927
Mercury	83722-01-27 03:22 G	32299918.52	32299918.64	32299918.76	0.2705	0.1456
Mercury	83724-07-28 18:29 G	32300832.15	32300832.27	32300832.39	0.2619	0.0523
Mercury	83735-01-30 04:48 G	32304669.56	32304669.70	32304669.84	0.2702	0.0436
Mercury	83737-07-31 13:12 G	32305582.93	32305583.05	32305583.16	0.2618	0.0611
Mercury	83748-02-02 05:46 G	32309420.71	32309420.74	32309420.78	0.2702	0.2595
Mercury	83750-08-03 07:56 G	32310333.76	32310333.83	32310333.91	0.2619	0.2015
Venus	83751-11-27 12:00 G	32310814.86	32310815.00	32310815.14	0.2676	0.1282
Mercury	83757-07-27 04:48 G	32312883.60	32312883.70	32312883.79	0.2623	0.1585

Venus	83759-11-25 00:44 G	32313734.43	32313734.53	32313734.63	0.2672	0.2097
Mercury	83768-01-28 09:08 G	32316720.75	32316720.88	32316721.01	0.2705	0.1215
Mercury	83770-07-29 23:32 G	32317634.36	32317634.48	32317634.60	0.2619	0.0404
Mercury	83781-01-30 10:34 G	32321471.81	32321471.94	32321472.07	0.2701	0.0995
Mercury	83783-08-01 18:00 G	32322385.14	32322385.25	32322385.36	0.2618	0.0979
Mercury	83796-08-03 13:12 G	32327135.98	32327136.05	32327136.11	0.2620	0.2188
Mercury	83803-07-29 09:36 G	32329685.80	32329685.90	32329686.00	0.2621	0.1370
Mercury	83814-01-29 14:53 G	32333522.99	32333523.12	32333523.26	0.2703	0.0731
Mercury	83816-07-31 04:20 G	32334436.56	32334436.68	32334436.80	0.2619	0.0061
Mercury	83827-02-01 16:20 G	32338274.06	32338274.18	32338274.31	0.2701	0.1220
Mercury	83829-08-02 23:03 G	32339187.35	32339187.46	32339187.57	0.2618	0.1106
Mercury	83836-07-26 19:41 G	32341737.27	32341737.32	32341737.37	0.2626	0.2359
Mercury	83842-08-05 18:00 G	32343938.23	32343938.25	32343938.27	0.2622	0.2570
Mercury	83847-01-27 18:44 G	32345574.24	32345574.28	32345574.33	0.2707	0.2568
Mercury	83849-07-29 14:39 G	32346488.00	32346488.11	32346488.22	0.2621	0.1102
Mercury	83860-01-30 20:39 G	32350325.22	32350325.36	32350325.50	0.2702	0.0379
Mercury	83862-08-01 09:08 G	32351238.76	32351238.88	32351239.00	0.2618	0.0147
Mercury	83873-02-01 22:05 G	32355076.31	32355076.42	32355076.53	0.2702	0.1725
Mercury	83875-08-04 04:05 G	32355989.57	32355989.67	32355989.77	0.2618	0.1503
Mercury	83882-07-28 00:44 G	32358539.47	32358539.53	32358539.59	0.2625	0.2192
Venus	83889-05-26 22:05 G	32361034.33	32361034.42	32361034.50	0.2652	0.2244
Mercury	83893-01-28 00:44 G	32362376.44	32362376.53	32362376.62	0.2706	0.2046
Mercury	83895-07-30 19:41 G	32363290.20	32363290.32	32363290.43	0.2621	0.0832
Venus	83897-05-24 13:27 G	32363953.92	32363954.06	32363954.21	0.2659	0.0897
Mercury	83906-02-01 02:39 G	32367127.47	32367127.61	32367127.75	0.2702	0.0004
Mercury	83908-08-02 14:10 G	32368040.97	32368041.09	32368041.21	0.2618	0.0408
Mercury	83919-02-04 03:36 G	32371878.56	32371878.65	32371878.75	0.2702	0.2009
Mercury	83921-08-05 08:53 G	32372791.78	32372791.87	32372791.97	0.2619	0.1662
Mercury	83928-07-29 05:46 G	32375341.66	32375341.74	32375341.82	0.2624	0.1807
Mercury	83939-01-30 06:44 G	32379178.67	32379178.78	32379178.88	0.2704	0.1797

Mercury	83941-08-01 00:29 G	32380092.40	32380092.52	32380092.64	0.2620	0.0640
Mercury	83952-02-02 08:39 G	32383929.72	32383929.86	32383930.00	0.2702	0.0473
Mercury	83954-08-03 19:12 G	32384843.18	32384843.30	32384843.41	0.2618	0.0677
Mercury	83965-02-04 09:22 G	32388680.83	32388680.89	32388680.95	0.2702	0.2385
Mercury	83967-08-06 13:56 G	32389594.00	32389594.08	32389594.16	0.2621	0.1971
Mercury	83974-07-30 10:48 G	32392143.86	32392143.95	32392144.04	0.2624	0.1688
Mercury	83985-01-30 12:44 G	32395980.90	32395981.03	32395981.15	0.2703	0.1201
Mercury	83987-08-02 05:17 G	32396894.60	32396894.72	32396894.84	0.2619	0.0308
Venus	83994-11-29 05:46 G	32399570.59	32399570.74	32399570.89	0.2681	0.0175
Mercury	83998-02-02 14:24 G	32400731.96	32400732.10	32400732.23	0.2702	0.0744
Mercury	84000-08-04 00:00 G	32401645.39	32401645.50	32401645.62	0.2618	0.0899

85TH MILLENNIUM CE

This is a list of transits visible from Moon in the 85th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	84002-11-27 00:44 G		32402490.48	32402490.53	32402490.57	0.2683	0.2548	
Mercury	84013-08-06 18:44 G		32406396.22	32406396.28	32406396.35	0.2621	0.2222	
Mercury	84020-07-30 15:36 G		32408946.05	32408946.15	32408946.25	0.2623	0.1305	
Mercury	84031-01-31 18:29 G		32412783.14	32412783.27	32412783.41	0.2703	0.0992	
Mercury	84033-08-02 10:20 G		32413696.81	32413696.93	32413697.05	0.2618	0.0181	
Mercury	84044-02-03 19:56 G		32417534.20	32417534.33	32417534.45	0.2702	0.1247	
Mercury	84046-08-05 05:03 G		32418447.60	32418447.71	32418447.81	0.2619	0.1218	
Mercury	84053-07-29 01:56 G		32420997.53	32420997.58	32420997.62	0.2626	0.2373	

Mercury	84059-08-07 23:46 G	32423198.46	32423198.49	32423198.53	0.2621	0.2471
Mercury	84066-07-31 20:39 G	32425748.25	32425748.36	32425748.46	0.2622	0.1180
Mercury	84077-02-01 00:29 G	32429585.38	32429585.52	32429585.66	0.2703	0.0397
Mercury	84079-08-03 15:22 G	32430499.02	32430499.14	32430499.26	0.2618	0.0236
Mercury	84090-02-04 01:41 G	32434336.45	32434336.57	32434336.69	0.2701	0.1447
Mercury	84092-08-05 09:51 G	32435249.81	32435249.91	32435250.01	0.2619	0.1353
Mercury	84099-07-30 06:44 G	32437799.72	32437799.78	32437799.85	0.2626	0.2164
Mercury	84110-01-31 04:20 G	32441636.60	32441636.68	32441636.75	0.2705	0.2253
Mercury	84112-08-02 01:27 G	32442550.45	32442550.56	32442550.67	0.2620	0.0836
Mercury	84123-02-03 06:15 G	32446387.62	32446387.76	32446387.90	0.2703	0.0169
Mercury	84125-08-04 20:10 G	32447301.22	32447301.34	32447301.46	0.2618	0.0344
Mercury	84136-02-06 07:27 G	32451138.72	32451138.81	32451138.91	0.2701	0.2032
Mercury	84138-08-07 14:39 G	32452052.03	32452052.11	32452052.20	0.2619	0.1747
Venus	84140-05-26 23:17 G	32452710.30	32452710.47	32452710.63	0.2652	0.0272
Mercury	84145-07-31 11:46 G	32454601.91	32454601.99	32454602.07	0.2625	0.1895
Mercury	84156-02-01 10:20 G	32458438.82	32458438.93	32458439.03	0.2705	0.1839
Mercury	84158-08-03 06:29 G	32459352.66	32459352.77	32459352.89	0.2619	0.0636
Mercury	84169-02-03 12:00 G	32463189.86	32463190.00	32463190.14	0.2702	0.0308
Mercury	84171-08-06 00:58 G	32464103.43	32464103.54	32464103.66	0.2618	0.0699
Mercury	84182-02-06 13:27 G	32467940.98	32467941.06	32467941.14	0.2702	0.2243
Mercury	84184-08-07 19:41 G	32468854.24	32468854.32	32468854.41	0.2619	0.1876
Mercury	84191-08-01 16:48 G	32471404.10	32471404.20	32471404.29	0.2623	0.1611
Mercury	84202-02-02 16:05 G	32475241.05	32475241.17	32475241.29	0.2705	0.1470
Mercury	84204-08-04 11:32 G	32476154.86	32476154.98	32476155.10	0.2619	0.0346
Mercury	84215-02-05 17:46 G	32479992.10	32479992.24	32479992.38	0.2701	0.0652
Mercury	84217-08-07 06:00 G	32480905.63	32480905.75	32480905.86	0.2618	0.0873
Mercury	84224-07-31 02:39 G	32483455.61	32483455.61	32483455.62	0.2629	0.2622
Mercury	84230-08-10 00:44 G	32485656.48	32485656.53	32485656.59	0.2620	0.2282
Mercury	84237-08-02 21:36 G	32488206.31	32488206.40	32488206.50	0.2622	0.1440
Venus	84237-12-01 18:00 G	32488327.14	32488327.25	32488327.36	0.2680	0.1892

Venus	84245-11-29 10:34 G	32491246.82	32491246.94	32491247.05	0.2674	0.1847
Mercury	84248-02-03 22:05 G	32492043.28	32492043.42	32492043.55	0.2703	0.0979
Mercury	84250-08-05 16:20 G	32492957.06	32492957.18	32492957.30	0.2619	0.0113
Mercury	84261-02-05 23:46 G	32496794.36	32496794.49	32496794.62	0.2701	0.1053
Mercury	84263-08-08 10:48 G	32497707.84	32497707.95	32497708.06	0.2618	0.1168
Mercury	84270-08-01 07:41 G	32500257.79	32500257.82	32500257.86	0.2627	0.2493
Mercury	84276-08-10 05:46 G	32502458.70	32502458.74	32502458.78	0.2622	0.2442
Mercury	84283-08-04 02:39 G	32505008.50	32505008.61	32505008.72	0.2621	0.1063
Mercury	84294-02-04 03:51 G	32508845.52	32508845.66	32508845.80	0.2702	0.0733
Mercury	84296-08-05 21:08 G	32509759.26	32509759.38	32509759.50	0.2619	0.0112
Mercury	84307-02-08 05:32 G	32513596.62	32513596.73	32513596.85	0.2702	0.1496
Mercury	84309-08-09 15:51 G	32514510.06	32514510.16	32514510.26	0.2618	0.1422
Mercury	84316-08-02 12:44 G	32517059.96	32517060.03	32517060.10	0.2625	0.2106
Mercury	84327-02-03 07:41 G	32520896.77	32520896.82	32520896.87	0.2706	0.2521
Mercury	84329-08-05 07:41 G	32521810.71	32521810.82	32521810.93	0.2621	0.0934
Mercury	84340-02-06 09:51 G	32525647.77	32525647.91	32525648.05	0.2701	0.0137
Mercury	84342-08-08 02:10 G	32526561.47	32526561.59	32526561.70	0.2618	0.0448
Mercury	84353-02-08 11:17 G	32530398.86	32530398.97	32530399.08	0.2702	0.1763
Mercury	84355-08-10 20:53 G	32531312.27	32531312.37	32531312.46	0.2619	0.1658
Mercury	84362-08-03 17:46 G	32533862.17	32533862.24	32533862.32	0.2624	0.1954
Mercury	84373-02-03 13:27 G	32537698.97	32537699.06	32537699.16	0.2704	0.1945
Mercury	84375-08-06 12:29 G	32538612.90	32538613.02	32538613.14	0.2621	0.0563
Venus	84383-05-29 11:32 G	32541465.84	32541465.98	32541466.11	0.2658	0.1377
Mercury	84386-02-06 15:51 G	32542450.01	32542450.16	32542450.30	0.2702	0.0088
Mercury	84388-08-08 06:58 G	32543363.68	32543363.79	32543363.91	0.2618	0.0578
Mercury	84399-02-09 16:48 G	32547201.13	32547201.20	32547201.28	0.2702	0.2282
Mercury	84401-08-11 01:41 G	32548114.49	32548114.57	32548114.65	0.2620	0.1983
Mercury	84408-08-03 22:48 G	32550664.36	32550664.45	32550664.54	0.2624	0.1602
Mercury	84419-02-04 19:41 G	32554501.20	32554501.32	32554501.43	0.2703	0.1640
Mercury	84421-08-06 17:17 G	32555415.11	32555415.22	32555415.34	0.2619	0.0442

Mercury	84432-02-07 21:36 G	32559252.26	32559252.40	32559252.54	0.2702	0.0644
Mercury	84434-08-09 12:00 G	32560165.89	32560166.00	32560166.11	0.2618	0.0967
Mercury	84445-02-09 22:48 G	32564003.39	32564003.45	32564003.50	0.2702	0.2487
Mercury	84447-08-12 06:44 G	32564916.71	32564916.78	32564916.84	0.2621	0.2131
Mercury	84454-08-05 03:51 G	32567466.56	32567466.66	32567466.76	0.2624	0.1415
Mercury	84465-02-05 01:41 G	32571303.44	32571303.57	32571303.70	0.2703	0.1148
Mercury	84467-08-07 22:20 G	32572217.31	32572217.43	32572217.55	0.2618	0.0100
Mercury	84478-02-08 03:22 G	32576054.50	32576054.64	32576054.77	0.2702	0.0874
Mercury	84480-08-09 16:48 G	32576968.09	32576968.20	32576968.31	0.2619	0.1096
Venus	84480-12-02 12:15 G	32577082.85	32577083.01	32577083.16	0.2672	0.0795
Mercury	84487-08-03 13:56 G	32579518.04	32579518.08	32579518.13	0.2627	0.2385
Venus	84488-11-30 03:22 G	32580002.54	32580002.64	32580002.74	0.2676	0.2010
Mercury	84493-08-12 11:32 G	32581718.96	32581718.98	32581719.01	0.2621	0.2540
Mercury	84500-08-06 08:39 G	32584268.76	32584268.86	32584268.97	0.2622	0.1138
Mercury	84511-02-07 07:41 G	32588105.68	32588105.82	32588105.95	0.2703	0.0773
Mercury	84513-08-09 03:22 G	32589019.52	32589019.64	32589019.76	0.2618	0.0133
Mercury	84524-02-10 08:53 G	32592856.75	32592856.87	32592857.00	0.2701	0.1353
Mercury	84526-08-11 21:36 G	32593770.31	32593770.40	32593770.50	0.2619	0.1453
Mercury	84533-08-04 18:58 G	32596320.23	32596320.29	32596320.35	0.2627	0.2222
Mercury	84544-02-05 11:03 G	32600156.91	32600156.96	32600157.01	0.2705	0.2494
Mercury	84546-08-07 13:41 G	32601070.95	32601071.07	32601071.18	0.2621	0.0869
Mercury	84557-02-07 13:27 G	32604907.91	32604908.06	32604908.20	0.2703	0.0398
Mercury	84559-08-10 08:10 G	32605821.72	32605821.84	32605821.96	0.2618	0.0408
Mercury	84570-02-10 14:53 G	32609659.01	32609659.12	32609659.23	0.2701	0.1689
Mercury	84572-08-12 02:39 G	32610572.52	32610572.61	32610572.70	0.2619	0.1625
Mercury	84579-08-05 23:46 G	32613122.41	32613122.49	32613122.58	0.2626	0.1863
Mercury	84590-02-05 17:17 G	32616959.14	32616959.22	32616959.30	0.2705	0.2242
Mercury	84592-08-07 18:29 G	32617873.16	32617873.27	32617873.39	0.2620	0.0680
Mercury	84603-02-09 19:12 G	32621710.15	32621710.30	32621710.44	0.2702	0.0094
Mercury	84605-08-11 12:58 G	32622623.93	32622624.04	32622624.16	0.2618	0.0648

Mercury	84616-02-12 20:39 G	32626461.28	32626461.36	32626461.45	0.2701	0.2113
Mercury	84618-08-14 07:41 G	32627374.74	32627374.82	32627374.90	0.2619	0.1954
Mercury	84625-08-07 04:48 G	32629924.61	32629924.70	32629924.79	0.2624	0.1730
Venus	84626-05-31 22:48 G	32630222.29	32630222.45	32630222.61	0.2659	0.0267
Mercury	84636-02-07 23:03 G	32633761.35	32633761.46	32633761.58	0.2704	0.1639
Mercury	84638-08-09 23:32 G	32634675.36	32634675.48	32634675.60	0.2620	0.0325
Mercury	84649-02-10 00:58 G	32638512.40	32638512.54	32638512.68	0.2701	0.0337
Mercury	84651-08-12 17:46 G	32639426.13	32639426.24	32639426.36	0.2618	0.0847
Mercury	84662-02-13 02:39 G	32643263.56	32643263.61	32643263.65	0.2702	0.2535
Mercury	84664-08-14 12:44 G	32644176.96	32644177.03	32644177.09	0.2620	0.2194
Mercury	84671-08-08 09:51 G	32646726.81	32646726.91	32646727.01	0.2622	0.1343
Mercury	84682-02-08 05:03 G	32650563.59	32650563.71	32650563.83	0.2703	0.1421
Mercury	84684-08-10 04:20 G	32651477.56	32651477.68	32651477.80	0.2620	0.0196
Mercury	84695-02-11 06:58 G	32655314.65	32655314.79	32655314.92	0.2701	0.0919
Mercury	84697-08-12 22:48 G	32656228.34	32656228.45	32656228.56	0.2618	0.1188
Mercury	84704-08-06 19:56 G	32658778.29	32658778.33	32658778.38	0.2628	0.2416
Mercury	84710-08-16 17:32 G	32660979.19	32660979.23	32660979.27	0.2621	0.2439
Mercury	84717-08-09 14:53 G	32663529.01	32663529.12	32663529.22	0.2622	0.1207
Venus	84723-12-06 21:22 G	32665839.27	32665839.39	32665839.50	0.2682	0.1595
Mercury	84728-02-10 10:48 G	32667365.81	32667365.95	32667366.09	0.2702	0.0854
Mercury	84730-08-12 09:08 G	32668279.76	32668279.88	32668280.00	0.2619	0.0196
Venus	84731-12-04 16:48 G	32668759.07	32668759.20	32668759.33	0.2677	0.1450
Mercury	84741-02-12 12:44 G	32672116.90	32672117.03	32672117.16	0.2701	0.1136
Mercury	84743-08-15 03:51 G	32673030.56	32673030.66	32673030.76	0.2618	0.1345
Mercury	84750-08-08 00:58 G	32675580.48	32675580.54	32675580.60	0.2626	0.2191
Mercury	84763-08-10 19:41 G	32680331.21	32680331.32	32680331.43	0.2622	0.0837
Mercury	84774-02-10 16:48 G	32684168.06	32684168.20	32684168.34	0.2701	0.0571
Mercury	84776-08-12 14:10 G	32685081.97	32685082.09	32685082.21	0.2618	0.0312
Mercury	84787-02-13 18:29 G	32688919.16	32688919.27	32688919.38	0.2702	0.1684
Mercury	84789-08-15 08:39 G	32689832.77	32689832.86	32689832.95	0.2619	0.1727

Mercury	84796-08-08 06:00 G	32692382.67	32692382.75	32692382.83	0.2625	0.1941
Mercury	84807-02-08 20:24 G	32696219.27	32696219.35	32696219.42	0.2704	0.2310
Mercury	84809-08-11 00:44 G	32697133.41	32697133.53	32697133.64	0.2621	0.0673
Mercury	84820-02-11 22:48 G	32700970.31	32700970.45	32700970.59	0.2702	0.0058
Mercury	84822-08-13 18:58 G	32701884.18	32701884.29	32701884.41	0.2618	0.0681
Mercury	84833-02-14 00:15 G	32705721.41	32705721.51	32705721.61	0.2702	0.1917
Mercury	84835-08-16 13:41 G	32706634.98	32706635.07	32706635.15	0.2620	0.1861
Mercury	84842-08-09 11:03 G	32709184.87	32709184.96	32709185.05	0.2625	0.1635
Mercury	84853-02-09 02:24 G	32713021.50	32713021.60	32713021.70	0.2703	0.1965
Mercury	84855-08-12 05:32 G	32713935.61	32713935.73	32713935.85	0.2620	0.0391
Mercury	84866-02-12 04:34 G	32717772.55	32717772.69	32717772.84	0.2702	0.0302
Mercury	84868-08-14 00:00 G	32718686.39	32718686.50	32718686.61	0.2618	0.0850
Venus	84869-06-01 12:15 G	32718977.87	32718978.01	32718978.15	0.2655	0.1374
Mercury	84879-02-15 06:00 G	32722523.69	32722523.75	32722523.81	0.2702	0.2428
Mercury	84881-08-16 18:29 G	32723437.21	32723437.27	32723437.33	0.2621	0.2232
Mercury	84888-08-09 15:51 G	32725987.07	32725987.16	32725987.26	0.2624	0.1454
Mercury	84899-02-10 08:24 G	32729823.73	32729823.85	32729823.97	0.2703	0.1397
Mercury	84901-08-13 10:20 G	32730737.81	32730737.93	32730738.05	0.2619	0.0127
Mercury	84912-02-14 10:20 G	32734574.79	32734574.93	32734575.07	0.2702	0.0666
Mercury	84914-08-16 04:48 G	32735488.60	32735488.70	32735488.81	0.2619	0.1159
Mercury	84921-08-09 02:10 G	32738038.56	32738038.59	32738038.62	0.2627	0.2526
Mercury	84927-08-18 23:32 G	32740239.43	32740239.48	32740239.52	0.2621	0.2400
Mercury	84934-08-11 20:53 G	32742789.26	32742789.37	32742789.47	0.2623	0.1110
Mercury	84945-02-11 14:24 G	32746625.97	32746626.10	32746626.24	0.2703	0.1132
Mercury	84947-08-14 15:22 G	32747540.02	32747540.14	32747540.26	0.2618	0.0087
Mercury	84958-02-14 16:05 G	32751377.05	32751377.17	32751377.30	0.2701	0.1142
Mercury	84960-08-16 09:36 G	32752290.80	32752290.90	32752291.00	0.2619	0.1397
Venus	84966-12-07 21:08 G	32754595.26	32754595.38	32754595.49	0.2667	0.1920
Mercury	84967-08-10 06:58 G	32754840.73	32754840.79	32754840.86	0.2627	0.2133
Venus	84974-12-05 10:05 G	32757514.80	32757514.92	32757515.04	0.2669	0.1794

Mercury	84980-08-12 01:41 G	32759591.46	32759591.57	32759591.68	0.2621	0.0977
Mercury	84991-02-12 20:24 G	32763428.20	32763428.35	32763428.49	0.2702	0.0564
Mercury	84993-08-14 20:10 G	32764342.22	32764342.34	32764342.46	0.2619	0.0420

86TH MILLENNIUM CE

This is a list of transits visible from Moon in the 86th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	85004-02-16 22:05 G		32768179.30	32768179.42	32768179.54	0.2701	0.1417	
Mercury	85006-08-18 14:39 G		32769093.01	32769093.11	32769093.20	0.2619	0.1611	
Mercury	85013-08-11 12:00 G		32771642.93	32771643.00	32771643.08	0.2627	0.1999	
Mercury	85024-02-11 23:46 G		32775479.43	32775479.49	32775479.55	0.2704	0.2401	
Mercury	85026-08-14 06:44 G		32776393.66	32776393.78	32776393.89	0.2620	0.0585	
Mercury	85037-02-14 02:10 G		32780230.45	32780230.59	32780230.73	0.2701	0.0338	
Mercury	85039-08-17 00:58 G		32781144.43	32781144.54	32781144.66	0.2619	0.0570	
Mercury	85050-02-17 04:05 G		32784981.57	32784981.67	32784981.76	0.2701	0.1981	
Mercury	85052-08-18 19:27 G		32785895.23	32785895.31	32785895.39	0.2619	0.1953	
Mercury	85059-08-12 17:03 G		32788445.12	32788445.21	32788445.30	0.2625	0.1647	
Mercury	85070-02-12 05:46 G		32792281.65	32792281.74	32792281.83	0.2704	0.2113	
Mercury	85072-08-14 11:32 G		32793195.87	32793195.98	32793196.10	0.2620	0.0464	
Mercury	85083-02-15 07:56 G		32797032.69	32797032.83	32797032.98	0.2701	0.0237	
Mercury	85085-08-17 05:46 G		32797946.63	32797946.74	32797946.85	0.2619	0.0931	
Mercury	85096-02-18 09:51 G		32801783.83	32801783.91	32801783.99	0.2702	0.2197	
Mercury	85098-08-20 00:29 G		32802697.46	32802697.52	32802697.59	0.2620	0.2128	

Mercury	85105-08-13 21:51 G	32805247.32	32805247.41	32805247.51	0.2623	0.1440
Venus	85112-06-04 18:58 G	32807734.14	32807734.29	32807734.45	0.2665	0.0148
Mercury	85116-02-14 11:46 G	32809083.87	32809083.99	32809084.11	0.2703	0.1613
Mercury	85118-08-16 16:34 G	32809998.07	32809998.19	32809998.31	0.2620	0.0104
Mercury	85129-02-16 13:56 G	32813834.94	32813835.08	32813835.23	0.2701	0.0504
Mercury	85131-08-19 10:48 G	32814748.84	32814748.95	32814749.06	0.2618	0.1059
Mercury	85138-08-12 08:10 G	32817298.80	32817298.84	32817298.88	0.2629	0.2445
Mercury	85144-08-21 05:32 G	32819499.70	32819499.73	32819499.76	0.2621	0.2511
Mercury	85151-08-15 02:53 G	32822049.52	32822049.62	32822049.73	0.2622	0.1171
Mercury	85162-02-14 17:32 G	32825886.11	32825886.23	32825886.36	0.2702	0.1211
Mercury	85164-08-16 21:22 G	32826800.27	32826800.39	32826800.51	0.2619	0.0100
Mercury	85175-02-17 19:56 G	32830637.20	32830637.33	32830637.46	0.2701	0.1028
Mercury	85177-08-19 15:51 G	32831551.06	32831551.16	32831551.25	0.2618	0.1450
Mercury	85184-08-12 13:12 G	32834100.99	32834101.05	32834101.11	0.2627	0.2267
Mercury	85197-08-15 07:56 G	32838851.72	32838851.83	32838851.94	0.2622	0.0888
Mercury	85208-02-15 23:46 G	32842688.35	32842688.49	32842688.63	0.2701	0.0842
Venus	85209-12-09 23:32 G	32843351.35	32843351.48	32843351.60	0.2680	0.1436
Mercury	85210-08-18 02:10 G	32843602.47	32843602.59	32843602.71	0.2618	0.0357
Venus	85217-12-07 20:10 G	32846271.20	32846271.34	32846271.48	0.2678	0.0839
Mercury	85221-02-18 01:41 G	32847439.44	32847439.57	32847439.69	0.2702	0.1357
Mercury	85223-08-20 20:39 G	32848353.27	32848353.36	32848353.46	0.2619	0.1610
Mercury	85230-08-13 18:15 G	32850903.18	32850903.26	32850903.34	0.2625	0.1883
Mercury	85243-08-16 12:44 G	32855653.92	32855654.03	32855654.14	0.2622	0.0691
Mercury	85254-02-16 05:46 G	32859490.59	32859490.74	32859490.88	0.2701	0.0315
Mercury	85256-08-18 06:58 G	32860404.68	32860404.79	32860404.91	0.2618	0.0629
Mercury	85267-02-19 07:27 G	32864241.70	32864241.81	32864241.92	0.2702	0.1728
Mercury	85269-08-21 01:41 G	32865155.49	32865155.57	32865155.64	0.2620	0.1925
Mercury	85276-08-13 23:03 G	32867705.38	32867705.46	32867705.55	0.2625	0.1764
Mercury	85287-02-14 08:53 G	32871541.79	32871541.87	32871541.96	0.2703	0.2128
Mercury	85289-08-16 17:32 G	32872456.11	32872456.23	32872456.35	0.2620	0.0359

Mercury	85300-02-17 11:32 G	32876292.84	32876292.98	32876293.13	0.2701	0.0074
Mercury	85302-08-20 12:00 G	32877206.89	32877207.00	32877207.11	0.2618	0.0848
Mercury	85313-02-20 13:12 G	32881043.97	32881044.05	32881044.13	0.2701	0.2203
Mercury	85315-08-23 06:29 G	32881957.70	32881957.77	32881957.83	0.2621	0.2169
Mercury	85322-08-16 04:05 G	32884507.57	32884507.67	32884507.77	0.2625	0.1364
Mercury	85333-02-15 15:08 G	32888344.03	32888344.13	32888344.23	0.2702	0.1884
Mercury	85335-08-18 22:20 G	32889258.32	32889258.43	32889258.55	0.2619	0.0248
Mercury	85346-02-18 17:17 G	32893095.08	32893095.22	32893095.36	0.2701	0.0512
Mercury	85348-08-20 16:48 G	32894009.10	32894009.20	32894009.31	0.2619	0.1170
Venus	85355-06-06 15:51 G	32896489.99	32896490.16	32896490.33	0.2655	0.0413
Mercury	85355-08-14 14:24 G	32896559.06	32896559.10	32896559.14	0.2628	0.2455
Mercury	85359-02-21 19:12 G	32897846.25	32897846.30	32897846.35	0.2702	0.2507
Mercury	85361-08-23 11:17 G	32898759.93	32898759.97	32898760.02	0.2620	0.2407
Mercury	85368-08-16 08:53 G	32901309.77	32901309.87	32901309.98	0.2624	0.1237
Mercury	85379-02-16 21:08 G	32905146.25	32905146.38	32905146.51	0.2703	0.1273
Mercury	85381-08-19 03:22 G	32906060.52	32906060.64	32906060.76	0.2619	0.0180
Mercury	85392-02-19 23:03 G	32909897.32	32909897.46	32909897.60	0.2701	0.0736
Mercury	85394-08-21 21:51 G	32910811.30	32910811.41	32910811.51	0.2619	0.1320
Mercury	85401-08-15 19:12 G	32913361.25	32913361.30	32913361.36	0.2628	0.2235
Mercury	85414-08-18 13:56 G	32918111.97	32918112.08	32918112.19	0.2622	0.0892
Mercury	85425-02-18 03:08 G	32921948.49	32921948.63	32921948.76	0.2702	0.1012
Mercury	85427-08-21 08:24 G	32922862.73	32922862.85	32922862.97	0.2619	0.0303
Mercury	85438-02-21 05:03 G	32926699.58	32926699.71	32926699.83	0.2701	0.1324
Mercury	85440-08-23 02:39 G	32927613.52	32927613.61	32927613.70	0.2619	0.1700
Mercury	85447-08-17 00:15 G	32930163.43	32930163.51	32930163.58	0.2627	0.1971
Venus	85452-12-12 06:44 G	32932107.73	32932107.78	32932107.83	0.2667	0.2539
Mercury	85460-08-18 18:44 G	32934914.17	32934914.28	32934914.40	0.2621	0.0691
Venus	85460-12-09 19:27 G	32935027.17	32935027.31	32935027.45	0.2664	0.1459
Mercury	85471-02-19 08:53 G	32938750.73	32938750.87	32938751.01	0.2701	0.0520
Mercury	85473-08-21 13:12 G	32939664.93	32939665.05	32939665.16	0.2619	0.0662

Mercury	85484-02-22 11:03 G	32943501.84	32943501.96	32943502.08	0.2701	0.1577
Mercury	85486-08-24 07:27 G	32944415.73	32944415.81	32944415.90	0.2619	0.1830
Mercury	85493-08-17 05:17 G	32946965.63	32946965.72	32946965.80	0.2626	0.1682
Mercury	85504-02-18 12:15 G	32950801.95	32950802.01	32950802.08	0.2704	0.2429
Mercury	85506-08-20 23:46 G	32951716.37	32951716.49	32951716.61	0.2621	0.0400
Mercury	85517-02-20 14:39 G	32955552.97	32955553.11	32955553.26	0.2701	0.0146
Mercury	85519-08-23 18:00 G	32956467.14	32956467.25	32956467.36	0.2619	0.0825
Mercury	85530-02-23 16:48 G	32960304.12	32960304.20	32960304.29	0.2702	0.2109
Mercury	85532-08-25 12:29 G	32961217.96	32961218.02	32961218.08	0.2619	0.2229
Mercury	85539-08-19 10:05 G	32963767.83	32963767.92	32963768.02	0.2624	0.1500
Mercury	85550-02-18 18:15 G	32967604.16	32967604.26	32967604.36	0.2703	0.1891
Mercury	85552-08-21 04:34 G	32968518.58	32968518.69	32968518.81	0.2621	0.0175
Mercury	85563-02-21 20:53 G	32972355.22	32972355.37	32972355.51	0.2700	0.0276
Mercury	85565-08-23 22:48 G	32973269.34	32973269.45	32973269.56	0.2618	0.1120
Mercury	85572-08-16 20:24 G	32975819.33	32975819.35	32975819.37	0.2630	0.2573
Mercury	85576-02-24 22:34 G	32977106.38	32977106.44	32977106.50	0.2703	0.2438
Mercury	85578-08-26 17:17 G	32978020.18	32978020.22	32978020.27	0.2621	0.2388
Mercury	85585-08-19 15:08 G	32980570.02	32980570.13	32980570.23	0.2623	0.1122
Mercury	85596-02-20 00:15 G	32984406.39	32984406.51	32984406.62	0.2702	0.1636
Venus	85598-06-08 13:41 G	32985245.93	32985246.07	32985246.21	0.2669	0.1006
Mercury	85598-08-22 09:22 G	32985320.78	32985320.89	32985321.01	0.2620	0.0115
Mercury	85609-02-22 02:53 G	32989157.48	32989157.62	32989157.75	0.2701	0.0772
Mercury	85611-08-25 03:51 G	32990071.56	32990071.66	32990071.76	0.2618	0.1380
Mercury	85618-08-18 01:27 G	32992621.49	32992621.56	32992621.62	0.2628	0.2183
Mercury	85631-08-20 20:10 G	32997372.23	32997372.34	32997372.44	0.2623	0.0996
Mercury	85642-02-20 06:15 G	33001208.63	33001208.76	33001208.90	0.2701	0.1002
Mercury	85644-08-22 14:10 G	33002122.98	33002123.09	33002123.21	0.2619	0.0401
Mercury	85655-02-23 08:39 G	33005959.73	33005959.86	33005959.99	0.2701	0.1050
Mercury	85657-08-25 08:39 G	33006873.77	33006873.86	33006873.95	0.2619	0.1614
Mercury	85664-08-18 06:29 G	33009423.69	33009423.77	33009423.84	0.2626	0.2017

Mercury	85677-08-21 00:58 G	33014174.43	33014174.54	33014174.65	0.2623	0.0604
Mercury	85688-02-21 12:29 G	33018010.88	33018011.02	33018011.16	0.2701	0.0771
Mercury	85690-08-23 19:12 G	33018925.18	33018925.30	33018925.41	0.2618	0.0532
Venus	85695-12-14 01:56 G	33020863.47	33020863.58	33020863.68	0.2674	0.1916
Mercury	85701-02-24 14:24 G	33022761.98	33022762.10	33022762.21	0.2701	0.1606
Mercury	85703-08-27 13:27 G	33023675.98	33023676.06	33023676.14	0.2620	0.1934
Venus	85703-12-12 21:51 G	33023783.27	33023783.41	33023783.55	0.2676	0.0720
Mercury	85710-08-20 11:17 G	33026225.89	33026225.97	33026226.06	0.2626	0.1673
Mercury	85721-02-19 15:22 G	33030062.11	33030062.14	33030062.17	0.2703	0.2610
Mercury	85723-08-23 05:46 G	33030976.63	33030976.74	33030976.86	0.2621	0.0477
Mercury	85734-02-22 18:15 G	33034813.12	33034813.26	33034813.41	0.2701	0.0175
Mercury	85736-08-25 00:00 G	33035727.39	33035727.50	33035727.62	0.2618	0.0934
Mercury	85747-02-25 20:10 G	33039564.24	33039564.34	33039564.45	0.2701	0.1825
Mercury	85749-08-27 18:29 G	33040478.20	33040478.27	33040478.34	0.2620	0.2086
Mercury	85756-08-20 16:20 G	33043028.09	33043028.18	33043028.28	0.2626	0.1475
Mercury	85767-02-20 21:36 G	33046864.31	33046864.40	33046864.49	0.2702	0.2116
Mercury	85769-08-23 10:34 G	33047778.82	33047778.94	33047779.06	0.2620	0.0139
Mercury	85780-02-24 00:00 G	33051615.36	33051615.50	33051615.65	0.2701	0.0113
Mercury	85782-08-26 05:03 G	33052529.60	33052529.71	33052529.82	0.2619	0.1060
Mercury	85789-08-19 02:39 G	33055079.57	33055079.61	33055079.65	0.2629	0.2462
Mercury	85793-02-26 02:10 G	33056366.53	33056366.59	33056366.65	0.2701	0.2435
Mercury	85795-08-28 23:17 G	33057280.44	33057280.47	33057280.51	0.2620	0.2488
Mercury	85802-08-22 21:08 G	33059830.28	33059830.38	33059830.49	0.2625	0.1197
Mercury	85813-02-22 03:51 G	33063666.54	33063666.66	33063666.77	0.2702	0.1664
Mercury	85815-08-25 15:36 G	33064581.03	33064581.15	33064581.27	0.2619	0.0075
Mercury	85826-02-25 06:00 G	33068417.60	33068417.75	33068417.89	0.2701	0.0588
Mercury	85828-08-27 09:51 G	33069331.81	33069331.91	33069332.01	0.2619	0.1412
Mercury	85835-08-21 07:41 G	33071881.76	33071881.82	33071881.87	0.2629	0.2300
Mercury	85839-02-28 08:10 G	33073168.82	33073168.84	33073168.85	0.2702	0.2675
Venus	85841-06-10 19:12 G	33074002.13	33074002.30	33074002.47	0.2658	0.0303

Mercury	85848-08-23 02:10 G	33076632.48	33076632.59	33076632.70	0.2623	0.0920
Mercury	85859-02-23 09:36 G	33080468.78	33080468.90	33080469.03	0.2702	0.1285
Mercury	85861-08-25 20:24 G	33081383.24	33081383.35	33081383.47	0.2619	0.0367
Mercury	85872-02-26 12:00 G	33085219.86	33085220.00	33085220.13	0.2700	0.0981
Mercury	85874-08-28 14:39 G	33086134.02	33086134.11	33086134.20	0.2619	0.1582
Mercury	85881-08-21 12:29 G	33088683.94	33088684.02	33088684.10	0.2628	0.1930
Mercury	85894-08-24 06:58 G	33093434.68	33093434.79	33093434.90	0.2621	0.0732
Mercury	85905-02-24 15:36 G	33097271.01	33097271.15	33097271.29	0.2701	0.0774
Mercury	85907-08-28 01:12 G	33098185.44	33098185.55	33098185.67	0.2619	0.0612
Mercury	85918-02-27 18:00 G	33102022.12	33102022.25	33102022.37	0.2700	0.1397
Mercury	85920-08-29 19:41 G	33102936.24	33102936.32	33102936.40	0.2619	0.1906
Mercury	85927-08-23 17:32 G	33105486.14	33105486.23	33105486.31	0.2627	0.1792
Mercury	85938-02-22 18:44 G	33109322.25	33109322.28	33109322.31	0.2704	0.2625
Venus	85938-12-17 14:39 G	33109620.09	33109620.11	33109620.12	0.2671	0.2652
Mercury	85940-08-25 12:00 G	33110236.88	33110237.00	33110237.11	0.2621	0.0377
Venus	85946-12-15 06:00 G	33112539.59	33112539.75	33112539.91	0.2664	0.0363
Mercury	85951-02-25 21:22 G	33114073.25	33114073.39	33114073.54	0.2700	0.0512
Mercury	85953-08-28 06:00 G	33114987.64	33114987.75	33114987.87	0.2619	0.0813
Mercury	85964-02-28 23:46 G	33118824.39	33118824.49	33118824.59	0.2701	0.1862
Mercury	85966-08-31 00:29 G	33119738.46	33119738.52	33119738.59	0.2619	0.2151
Mercury	85973-08-23 22:20 G	33122288.33	33122288.43	33122288.53	0.2625	0.1405
Mercury	85984-02-24 00:44 G	33126124.47	33126124.53	33126124.60	0.2703	0.2383
Mercury	85986-08-26 16:48 G	33127039.08	33127039.20	33127039.32	0.2621	0.0227
Mercury	85997-02-26 03:22 G	33130875.50	33130875.64	33130875.79	0.2700	0.0147
Mercury	85999-08-29 11:03 G	33131789.85	33131789.96	33131790.06	0.2618	0.1152

87TH MILLENNIUM CE

This is a list of transits visible from Moon in the 87th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	86006-08-22 08:39	G	33134339.83	33134339.86	33134339.90	0.2630	0.2494	
Mercury	86010-03-01 05:32	G	33135626.65	33135626.73	33135626.82	0.2702	0.2142	
Mercury	86012-08-31 05:32	G	33136540.68	33136540.73	33136540.77	0.2620	0.2400	
Mercury	86019-08-25 03:22	G	33139090.54	33139090.64	33139090.74	0.2624	0.1256	
Mercury	86030-02-24 06:44	G	33142926.67	33142926.78	33142926.88	0.2702	0.1804	
Mercury	86032-08-26 21:36	G	33143841.28	33143841.40	33143841.52	0.2620	0.0151	
Mercury	86043-02-27 09:36	G	33147677.75	33147677.90	33147678.04	0.2700	0.0359	
Mercury	86045-08-29 15:51	G	33148592.06	33148592.16	33148592.27	0.2618	0.1306	
Mercury	86052-08-22 13:41	G	33151142.01	33151142.07	33151142.13	0.2628	0.2269	
Mercury	86065-08-25 08:10	G	33155892.74	33155892.84	33155892.95	0.2624	0.0897	
Mercury	86076-02-25 12:44	G	33159728.91	33159729.03	33159729.15	0.2701	0.1474	
Venus	86076-06-13 19:27	G	33159838.24	33159838.31	33159838.39	0.2662	0.2364	
Mercury	86078-08-28 02:24	G	33160643.49	33160643.60	33160643.72	0.2619	0.0286	
Venus	86084-06-11 09:36	G	33162757.76	33162757.90	33162758.04	0.2669	0.1209	
Mercury	86089-02-27 15:22	G	33164480.00	33164480.14	33164480.27	0.2701	0.0935	
Mercury	86091-08-30 20:53	G	33165394.28	33165394.37	33165394.46	0.2619	0.1695	
Mercury	86098-08-23 18:44	G	33167944.21	33167944.28	33167944.35	0.2627	0.2013	
Mercury	86111-08-27 13:12	G	33172694.94	33172695.05	33172695.16	0.2623	0.0718	
Mercury	86122-02-26 18:44	G	33176531.15	33176531.28	33176531.42	0.2701	0.0956	
Mercury	86124-08-29 07:27	G	33177445.69	33177445.81	33177445.92	0.2619	0.0641	
Mercury	86135-03-01 21:08	G	33181282.25	33181282.38	33181282.51	0.2701	0.1195	
Mercury	86137-09-01 01:41	G	33182196.49	33182196.57	33182196.65	0.2620	0.1828	

Mercury	86144-08-24 23:32 G	33184746.40	33184746.48	33184746.57	0.2627	0.1699
Mercury	86157-08-27 18:00 G	33189497.13	33189497.25	33189497.37	0.2622	0.0431
Mercury	86168-02-28 00:58 G	33193333.39	33193333.54	33193333.68	0.2701	0.0541
Mercury	86170-08-30 12:15 G	33194247.90	33194248.01	33194248.13	0.2618	0.0819
Mercury	86181-03-02 03:08 G	33198084.52	33198084.63	33198084.74	0.2701	0.1714
Venus	86181-12-18 07:27 G	33198375.77	33198375.81	33198375.86	0.2666	0.2551
Mercury	86183-09-02 06:29 G	33198998.71	33198998.77	33198998.83	0.2620	0.2190
Venus	86189-12-16 00:29 G	33201295.38	33201295.52	33201295.66	0.2669	0.1100
Mercury	86190-08-26 04:34 G	33201548.60	33201548.69	33201548.78	0.2626	0.1516
Mercury	86201-02-26 03:51 G	33205384.59	33205384.66	33205384.73	0.2702	0.2374
Mercury	86203-08-29 22:48 G	33206299.34	33206299.45	33206299.57	0.2620	0.0171
Mercury	86214-03-01 06:44 G	33210135.63	33210135.78	33210135.93	0.2701	0.0168
Mercury	86216-08-31 17:03 G	33211050.11	33211050.21	33211050.32	0.2619	0.1133
Mercury	86223-08-25 14:53 G	33213600.11	33213600.12	33213600.14	0.2629	0.2596
Mercury	86227-03-04 09:08 G	33214886.79	33214886.88	33214886.97	0.2701	0.2093
Mercury	86229-09-03 11:17 G	33215800.93	33215800.97	33215801.02	0.2620	0.2362
Mercury	86236-08-27 09:22 G	33218350.79	33218350.89	33218351.00	0.2626	0.1162
Mercury	86247-02-27 10:05 G	33222186.83	33222186.92	33222187.01	0.2702	0.2109
Mercury	86249-08-30 03:51 G	33223101.54	33223101.66	33223101.78	0.2620	0.0051
Mercury	86260-03-01 12:29 G	33226937.88	33226938.02	33226938.17	0.2700	0.0356
Mercury	86262-09-01 21:51 G	33227852.31	33227852.41	33227852.51	0.2619	0.1367
Mercury	86269-08-25 19:56 G	33230402.27	33230402.33	33230402.39	0.2629	0.2202
Mercury	86273-03-04 15:08 G	33231689.08	33231689.13	33231689.18	0.2702	0.2527
Mercury	86282-08-28 14:24 G	33235152.99	33235153.10	33235153.21	0.2624	0.1019
Mercury	86293-02-27 16:05 G	33238989.04	33238989.17	33238989.29	0.2702	0.1483
Mercury	86295-08-31 08:39 G	33239903.75	33239903.86	33239903.98	0.2620	0.0396
Mercury	86306-03-03 18:29 G	33243740.13	33243740.27	33243740.42	0.2700	0.0629
Mercury	86308-09-03 02:39 G	33244654.52	33244654.61	33244654.71	0.2619	0.1579
Mercury	86315-08-28 00:44 G	33247204.46	33247204.53	33247204.60	0.2629	0.2068
Venus	86327-06-15 20:10 G	33251514.17	33251514.34	33251514.50	0.2664	0.0160

Mercury	86328-08-29 19:12 G	33251955.19	33251955.30	33251955.42	0.2622	0.0634
Mercury	86339-03-01 21:51 G	33255791.28	33255791.41	33255791.55	0.2701	0.1243
Mercury	86341-09-01 13:41 G	33256705.95	33256706.07	33256706.18	0.2620	0.0552
Mercury	86352-03-04 00:44 G	33260542.40	33260542.53	33260542.66	0.2700	0.1245
Mercury	86354-09-04 07:41 G	33261456.74	33261456.82	33261456.90	0.2619	0.1922
Mercury	86361-08-28 05:46 G	33264006.65	33264006.74	33264006.83	0.2627	0.1707
Mercury	86374-08-31 00:15 G	33268757.40	33268757.51	33268757.63	0.2622	0.0493
Mercury	86385-03-02 03:51 G	33272593.52	33272593.66	33272593.80	0.2700	0.0656
Mercury	86387-09-02 18:15 G	33273508.15	33273508.26	33273508.37	0.2619	0.0900
Mercury	86398-03-05 06:44 G	33277344.65	33277344.78	33277344.90	0.2701	0.1482
Mercury	86400-09-04 12:44 G	33278258.96	33278259.03	33278259.10	0.2619	0.2094
Mercury	86407-08-29 10:48 G	33280808.85	33280808.95	33280809.04	0.2626	0.1493
Mercury	86418-02-28 06:58 G	33284644.76	33284644.79	33284644.82	0.2703	0.2635
Mercury	86420-08-31 05:03 G	33285559.60	33285559.71	33285559.83	0.2622	0.0140
Mercury	86431-03-03 10:05 G	33289395.77	33289395.92	33289396.06	0.2700	0.0337
Venus	86432-12-18 13:41 G	33290051.92	33290052.07	33290052.22	0.2667	0.0621
Mercury	86433-09-02 23:03 G	33290310.36	33290310.46	33290310.57	0.2619	0.1036
Mercury	86440-08-26 20:53 G	33292860.35	33292860.37	33292860.40	0.2631	0.2526
Mercury	86444-03-05 12:15 G	33294146.92	33294147.01	33294147.11	0.2702	0.2057
Mercury	86446-09-05 17:32 G	33295061.20	33295061.23	33295061.27	0.2620	0.2476
Mercury	86453-08-29 15:36 G	33297611.05	33297611.15	33297611.26	0.2624	0.1227
Mercury	86464-02-29 12:58 G	33301446.95	33301447.04	33301447.13	0.2701	0.2172
Mercury	86466-09-01 09:51 G	33302361.80	33302361.91	33302362.03	0.2621	0.0093
Mercury	86477-03-03 16:05 G	33306198.02	33306198.17	33306198.32	0.2700	0.0203
Mercury	86479-09-04 04:05 G	33307112.57	33307112.67	33307112.77	0.2618	0.1415
Mercury	86486-08-28 01:56 G	33309662.53	33309662.58	33309662.63	0.2629	0.2339
Mercury	86490-03-06 18:15 G	33310949.19	33310949.26	33310949.33	0.2702	0.2322
Mercury	86492-09-05 22:20 G	33311863.43	33311863.43	33311863.44	0.2622	0.2616
Mercury	86499-08-30 20:39 G	33314413.25	33314413.36	33314413.47	0.2624	0.0935
Mercury	86510-03-02 19:12 G	33318249.19	33318249.30	33318249.40	0.2700	0.1816

Mercury	86512-09-02 14:39 G	33319164.00	33319164.11	33319164.23	0.2620	0.0333
Mercury	86523-03-05 22:05 G	33323000.27	33323000.42	33323000.56	0.2700	0.0590
Mercury	86525-09-05 08:53 G	33323914.78	33323914.87	33323914.97	0.2619	0.1584
Mercury	86532-08-29 06:58 G	33326464.72	33326464.79	33326464.87	0.2628	0.1948
Mercury	86545-09-01 01:27 G	33331215.45	33331215.56	33331215.67	0.2624	0.0732
Mercury	86556-03-03 01:12 G	33335051.42	33335051.55	33335051.68	0.2700	0.1218
Mercury	86558-09-03 19:27 G	33335966.20	33335966.31	33335966.43	0.2619	0.0599
Venus	86562-06-18 21:22 G	33337350.34	33337350.39	33337350.44	0.2660	0.2544
Mercury	86569-03-06 03:51 G	33339802.52	33339802.66	33339802.79	0.2701	0.0958
Venus	86570-06-16 07:41 G	33340269.67	33340269.82	33340269.98	0.2667	0.0779
Mercury	86571-09-06 13:41 G	33340716.99	33340717.07	33340717.15	0.2620	0.1899
Mercury	86578-08-30 12:00 G	33343266.92	33343267.00	33343267.08	0.2627	0.1814
Mercury	86591-09-02 06:15 G	33348017.65	33348017.76	33348017.88	0.2623	0.0395
Mercury	86602-03-05 07:27 G	33351853.67	33351853.81	33351853.94	0.2701	0.0938
Mercury	86604-09-05 00:29 G	33352768.41	33352768.52	33352768.63	0.2619	0.0819
Mercury	86615-03-08 09:36 G	33356604.78	33356604.90	33356605.02	0.2701	0.1487
Mercury	86617-09-07 18:44 G	33357519.21	33357519.28	33357519.34	0.2620	0.2141
Mercury	86624-08-31 17:03 G	33360069.11	33360069.21	33360069.30	0.2627	0.1417
Mercury	86637-09-03 11:03 G	33364819.85	33364819.96	33364820.08	0.2621	0.0274
Mercury	86648-03-05 13:12 G	33368655.90	33368656.05	33368656.19	0.2700	0.0347
Mercury	86650-09-06 05:32 G	33369570.62	33369570.73	33369570.83	0.2619	0.1154
Mercury	86657-08-30 03:22 G	33372120.61	33372120.64	33372120.67	0.2630	0.2528
Mercury	86661-03-08 15:51 G	33373407.05	33373407.16	33373407.27	0.2701	0.1779
Mercury	86663-09-08 23:32 G	33374321.43	33374321.48	33374321.53	0.2620	0.2374
Mercury	86670-09-01 21:51 G	33376871.31	33376871.41	33376871.51	0.2626	0.1287
Venus	86675-12-21 06:44 G	33378807.62	33378807.78	33378807.93	0.2662	0.0812
Mercury	86681-03-03 16:20 G	33380707.10	33380707.18	33380707.25	0.2702	0.2283
Mercury	86683-09-04 16:05 G	33381622.05	33381622.17	33381622.28	0.2620	0.0145
Mercury	86694-03-06 18:58 G	33385458.15	33385458.29	33385458.44	0.2700	0.0118
Mercury	86696-09-06 10:20 G	33386372.82	33386372.93	33386373.03	0.2619	0.1308

Mercury	86703-09-01 08:24 G	33388922.79	33388922.85	33388922.90	0.2630	0.2293
Mercury	86707-03-10 21:51 G	33390209.34	33390209.41	33390209.47	0.2701	0.2382
Mercury	86716-09-03 02:39 G	33393673.50	33393673.61	33393673.72	0.2624	0.0929
Mercury	86727-03-05 22:20 G	33397509.33	33397509.43	33397509.53	0.2702	0.1959
Mercury	86729-09-05 20:53 G	33398424.26	33398424.37	33398424.49	0.2620	0.0290
Mercury	86740-03-08 00:58 G	33402260.40	33402260.54	33402260.69	0.2700	0.0507
Mercury	86742-09-08 14:53 G	33403175.03	33403175.12	33403175.21	0.2619	0.1671
Mercury	86749-09-01 13:12 G	33405724.98	33405725.05	33405725.12	0.2630	0.2033
Mercury	86753-03-11 03:51 G	33407011.62	33407011.66	33407011.69	0.2703	0.2623
Mercury	86762-09-04 07:41 G	33410475.70	33410475.82	33410475.93	0.2623	0.0731
Mercury	86773-03-06 04:20 G	33414311.55	33414311.68	33414311.80	0.2701	0.1467
Mercury	86775-09-07 01:56 G	33415226.46	33415226.58	33415226.69	0.2620	0.0648
Mercury	86786-03-09 07:12 G	33419062.66	33419062.80	33419062.94	0.2700	0.0812
Mercury	86788-09-08 19:56 G	33419977.24	33419977.33	33419977.41	0.2619	0.1805
Mercury	86795-09-02 18:00 G	33422527.17	33422527.25	33422527.34	0.2628	0.1741
Mercury	86808-09-04 12:29 G	33427277.91	33427278.02	33427278.14	0.2622	0.0442
Venus	86813-06-18 17:46 G	33429026.08	33429026.24	33429026.39	0.2672	0.0318
Mercury	86819-03-07 10:05 G	33431113.79	33431113.92	33431114.06	0.2700	0.1019
Mercury	86821-09-07 06:29 G	33432028.66	33432028.77	33432028.89	0.2620	0.0813
Mercury	86832-03-09 13:12 G	33435864.92	33435865.05	33435865.18	0.2701	0.1350
Mercury	86834-09-10 00:44 G	33436779.47	33436779.53	33436779.59	0.2619	0.2206
Mercury	86841-09-02 23:03 G	33439329.37	33439329.46	33439329.55	0.2626	0.1550
Mercury	86854-09-05 17:32 G	33444080.11	33444080.23	33444080.34	0.2622	0.0196
Mercury	86865-03-07 16:20 G	33447916.04	33447916.18	33447916.32	0.2699	0.0633
Mercury	86867-09-08 11:17 G	33448830.87	33448830.97	33448831.08	0.2619	0.1101
Mercury	86878-03-10 18:58 G	33452667.18	33452667.29	33452667.41	0.2701	0.1725
Mercury	86880-09-10 05:46 G	33453581.69	33453581.74	33453581.78	0.2620	0.2365
Mercury	86887-09-04 04:05 G	33456131.56	33456131.67	33456131.77	0.2625	0.1166
Mercury	86898-03-05 18:58 G	33459967.27	33459967.29	33459967.32	0.2701	0.2656
Mercury	86900-09-06 22:20 G	33460882.31	33460882.43	33460882.55	0.2622	0.0055

Mercury	86911-03-09 22:34 G	33464718.29	33464718.44	33464718.58	0.2700	0.0111
Mercury	86913-09-09 16:20 G	33465633.08	33465633.18	33465633.28	0.2619	0.1357
Venus	86918-12-23 18:15 G	33467564.12	33467564.26	33467564.41	0.2669	0.0685
Mercury	86920-09-02 14:24 G	33468183.04	33468183.10	33468183.16	0.2630	0.2247
Mercury	86924-03-12 00:58 G	33469469.45	33469469.54	33469469.63	0.2702	0.2113
Mercury	86933-09-05 08:53 G	33472933.77	33472933.87	33472933.98	0.2625	0.1035
Mercury	86944-03-07 01:12 G	33476769.45	33476769.55	33476769.64	0.2700	0.2009
Mercury	86946-09-08 03:08 G	33477684.51	33477684.63	33477684.74	0.2620	0.0377
Mercury	86957-03-10 04:34 G	33481520.54	33481520.69	33481520.83	0.2700	0.0234
Mercury	86959-09-10 21:08 G	33482435.29	33482435.38	33482435.48	0.2619	0.1603
Mercury	86966-09-03 19:27 G	33484985.24	33484985.31	33484985.38	0.2629	0.2075
Mercury	86970-03-13 06:58 G	33486271.76	33486271.79	33486271.82	0.2702	0.2638
Mercury	86979-09-06 13:56 G	33489735.96	33489736.08	33489736.19	0.2625	0.0641
Mercury	86990-03-08 07:27 G	33493571.69	33493571.81	33493571.92	0.2700	0.1737
Mercury	86992-09-08 07:56 G	33494486.71	33494486.83	33494486.94	0.2619	0.0514

88TH MILLENNIUM CE

This is a list of transits visible from Moon in the 88th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	87003-03-12 10:05 G	33498322.78	33498322.92	33498323.06	0.2700	0.0802		
Mercury	87005-09-12 01:56 G	33499237.51	33499237.58	33499237.66	0.2620	0.1922		
Mercury	87012-09-05 00:29 G	33501787.43	33501787.52	33501787.60	0.2628	0.1733		
Mercury	87025-09-07 18:44 G	33506538.16	33506538.28	33506538.39	0.2623	0.0511		

Mercury	87036-03-09 13:27 G	33510373.93	33510374.06	33510374.20	0.2700	0.1099
Mercury	87038-09-10 12:44 G	33511288.92	33511289.03	33511289.14	0.2619	0.0912
Mercury	87049-03-12 16:05 G	33515125.04	33515125.17	33515125.31	0.2700	0.1048
Mercury	87051-09-13 06:44 G	33516039.71	33516039.78	33516039.85	0.2620	0.2076
Venus	87056-06-20 09:22 G	33517781.73	33517781.89	33517782.06	0.2664	0.0438
Mercury	87058-09-06 05:17 G	33518589.63	33518589.72	33518589.81	0.2628	0.1521
Mercury	87071-09-08 23:32 G	33523340.36	33523340.48	33523340.60	0.2622	0.0157
Mercury	87082-03-10 19:27 G	33527176.17	33527176.31	33527176.45	0.2700	0.0795
Mercury	87084-09-10 17:32 G	33528091.13	33528091.23	33528091.34	0.2619	0.1047
Mercury	87091-09-04 15:36 G	33530641.13	33530641.15	33530641.18	0.2631	0.2535
Mercury	87095-03-13 22:20 G	33531927.31	33531927.43	33531927.54	0.2700	0.1686
Mercury	87097-09-13 11:46 G	33532841.95	33532841.99	33532842.02	0.2620	0.2463
Mercury	87104-09-07 10:05 G	33535391.82	33535391.92	33535392.03	0.2627	0.1242
Mercury	87115-03-09 22:05 G	33539227.42	33539227.42	33539227.43	0.2701	0.2695
Mercury	87117-09-10 04:20 G	33540142.57	33540142.68	33540142.80	0.2621	0.0066
Mercury	87128-03-12 01:27 G	33543978.41	33543978.56	33543978.70	0.2700	0.0308
Mercury	87130-09-12 22:20 G	33544893.34	33544893.43	33544893.53	0.2620	0.1407
Mercury	87137-09-05 20:39 G	33547443.32	33547443.36	33547443.41	0.2631	0.2363
Mercury	87141-03-15 04:20 G	33548729.58	33548729.68	33548729.78	0.2701	0.1970
Mercury	87143-09-15 16:34 G	33549644.18	33549644.19	33549644.20	0.2620	0.2599
Mercury	87150-09-08 15:08 G	33552194.02	33552194.13	33552194.24	0.2625	0.0957
Mercury	87161-03-10 04:20 G	33556029.61	33556029.68	33556029.76	0.2701	0.2314
Venus	87161-12-25 15:36 G	33556319.98	33556320.15	33556320.31	0.2656	0.0310
Mercury	87163-09-11 09:22 G	33556944.77	33556944.89	33556945.00	0.2621	0.0353
Mercury	87174-03-13 07:27 G	33560780.66	33560780.81	33560780.95	0.2699	0.0155
Mercury	87176-09-13 03:08 G	33561695.54	33561695.63	33561695.73	0.2620	0.1572
Mercury	87183-09-07 01:41 G	33564245.49	33564245.57	33564245.64	0.2631	0.1984
Mercury	87187-03-16 10:20 G	33565531.88	33565531.93	33565531.98	0.2702	0.2509
Mercury	87196-09-08 19:56 G	33568996.22	33568996.33	33568996.44	0.2624	0.0767
Mercury	87207-03-11 10:20 G	33572831.82	33572831.93	33572832.04	0.2700	0.1741

Mercury	87209-09-11 14:10 G	33573746.97	33573747.09	33573747.20	0.2621	0.0592
Mercury	87220-03-13 13:27 G	33577582.92	33577583.06	33577583.21	0.2699	0.0558
Mercury	87222-09-14 08:10 G	33578497.76	33578497.84	33578497.92	0.2619	0.1884
Mercury	87229-09-07 06:29 G	33581047.69	33581047.77	33581047.85	0.2629	0.1844
Mercury	87242-09-10 00:58 G	33585798.42	33585798.54	33585798.65	0.2623	0.0399
Mercury	87253-03-11 16:20 G	33589634.06	33589634.18	33589634.30	0.2699	0.1478
Mercury	87255-09-12 18:58 G	33590549.18	33590549.29	33590549.40	0.2620	0.0809
Mercury	87266-03-14 19:27 G	33594385.18	33594385.31	33594385.45	0.2700	0.1089
Mercury	87268-09-14 12:58 G	33595299.98	33595300.04	33595300.11	0.2619	0.2133
Mercury	87275-09-08 11:32 G	33597849.88	33597849.98	33597850.07	0.2627	0.1453
Mercury	87288-09-10 05:46 G	33602600.63	33602600.74	33602600.86	0.2623	0.0249
Venus	87291-06-24 18:44 G	33603618.22	33603618.28	33603618.34	0.2674	0.2464
Mercury	87299-03-12 22:20 G	33606436.29	33606436.43	33606436.57	0.2699	0.0820
Venus	87299-06-22 12:15 G	33606537.86	33606538.01	33606538.16	0.2678	0.0409
Mercury	87301-09-13 23:46 G	33607351.38	33607351.49	33607351.59	0.2619	0.1139
Mercury	87308-09-06 21:51 G	33609901.39	33609901.41	33609901.43	0.2633	0.2564
Mercury	87312-03-16 01:27 G	33611187.43	33611187.56	33611187.69	0.2701	0.1372
Mercury	87314-09-16 18:00 G	33612102.20	33612102.25	33612102.29	0.2620	0.2392
Mercury	87321-09-09 16:20 G	33614652.08	33614652.18	33614652.28	0.2626	0.1297
Mercury	87334-09-12 10:34 G	33619402.82	33619402.94	33619403.06	0.2622	0.0131
Mercury	87345-03-14 04:34 G	33623238.55	33623238.69	33623238.84	0.2699	0.0554
Mercury	87347-09-15 04:34 G	33624153.59	33624153.69	33624153.79	0.2619	0.1290
Mercury	87354-09-08 02:53 G	33626703.57	33626703.62	33626703.67	0.2631	0.2337
Mercury	87358-03-17 07:12 G	33627989.70	33627989.80	33627989.90	0.2702	0.1973
Mercury	87367-09-10 21:22 G	33631454.28	33631454.39	33631454.49	0.2626	0.0936
Mercury	87378-03-12 07:12 G	33635289.74	33635289.80	33635289.85	0.2700	0.2491
Mercury	87380-09-12 15:22 G	33636205.02	33636205.14	33636205.26	0.2621	0.0260
Mercury	87391-03-15 10:34 G	33640040.79	33640040.94	33640041.09	0.2700	0.0079
Mercury	87393-09-15 09:36 G	33640955.81	33640955.90	33640955.98	0.2619	0.1687
Mercury	87400-09-09 07:56 G	33643505.76	33643505.83	33643505.89	0.2630	0.2070

Mercury	87404-03-18 13:27 G	33644791.98	33644792.06	33644792.14	0.2702	0.2223
Venus	87404-12-27 20:39 G	33645076.21	33645076.36	33645076.51	0.2668	0.0333
Venus	87412-12-25 17:17 G	33647996.14	33647996.22	33647996.31	0.2665	0.2229
Mercury	87413-09-12 02:10 G	33648256.48	33648256.59	33648256.70	0.2625	0.0749
Mercury	87424-03-13 13:27 G	33652091.96	33652092.06	33652092.16	0.2699	0.1984
Mercury	87426-09-14 20:10 G	33653007.23	33653007.34	33653007.46	0.2620	0.0618
Mercury	87437-03-16 16:34 G	33656843.04	33656843.19	33656843.34	0.2700	0.0372
Mercury	87439-09-17 14:24 G	33657758.01	33657758.10	33657758.18	0.2620	0.1819
Mercury	87446-09-10 12:44 G	33660307.95	33660308.03	33660308.12	0.2629	0.1745
Mercury	87459-09-13 06:58 G	33665058.68	33665058.79	33665058.91	0.2624	0.0456
Mercury	87470-03-14 19:27 G	33668894.19	33668894.31	33668894.43	0.2700	0.1509
Mercury	87472-09-15 01:12 G	33669809.44	33669809.55	33669809.66	0.2620	0.0805
Mercury	87483-03-17 22:34 G	33673645.30	33673645.44	33673645.58	0.2700	0.0880
Mercury	87485-09-17 18:58 G	33674560.23	33674560.29	33674560.36	0.2620	0.2179
Mercury	87492-09-10 17:46 G	33677110.15	33677110.24	33677110.33	0.2629	0.1562
Mercury	87505-09-14 12:00 G	33681860.88	33681861.00	33681861.11	0.2622	0.0213
Mercury	87516-03-16 01:27 G	33685696.43	33685696.56	33685696.70	0.2700	0.1126
Mercury	87518-09-17 06:00 G	33686611.64	33686611.75	33686611.85	0.2620	0.1121
Mercury	87529-03-19 04:34 G	33690447.56	33690447.69	33690447.82	0.2700	0.1312
Mercury	87531-09-19 23:46 G	33691362.44	33691362.49	33691362.54	0.2620	0.2352
Mercury	87538-09-12 22:34 G	33693912.34	33693912.44	33693912.54	0.2628	0.1199
Venus	87542-06-25 12:58 G	33695293.87	33695294.04	33695294.20	0.2665	0.0506
Mercury	87551-09-15 16:48 G	33698663.08	33698663.20	33698663.31	0.2621	0.0031
Mercury	87562-03-17 07:27 G	33702498.66	33702498.81	33702498.96	0.2699	0.0562
Mercury	87564-09-17 10:48 G	33703413.85	33703413.95	33703414.05	0.2620	0.1359
Mercury	87571-09-11 09:08 G	33705963.82	33705963.88	33705963.94	0.2631	0.2263
Mercury	87575-03-20 10:48 G	33707249.84	33707249.95	33707250.06	0.2700	0.1752
Mercury	87584-09-13 03:36 G	33710714.54	33710714.65	33710714.75	0.2626	0.1057
Mercury	87595-03-15 10:05 G	33714549.87	33714549.92	33714549.97	0.2701	0.2538
Mercury	87597-09-15 21:36 G	33715465.29	33715465.40	33715465.52	0.2621	0.0383

Mercury	87608-03-17 13:27 G	33719300.91	33719301.06	33719301.21	0.2699	0.0294
Mercury	87610-09-18 15:36 G	33720216.05	33720216.15	33720216.24	0.2620	0.1577
Mercury	87617-09-11 13:56 G	33722766.02	33722766.08	33722766.15	0.2631	0.2122
Mercury	87621-03-20 16:48 G	33724052.12	33724052.20	33724052.28	0.2702	0.2268
Mercury	87630-09-14 08:24 G	33727516.74	33727516.85	33727516.96	0.2624	0.0664
Mercury	87641-03-15 16:05 G	33731352.09	33731352.17	33731352.25	0.2700	0.2272
Mercury	87643-09-17 02:39 G	33732267.49	33732267.61	33732267.72	0.2621	0.0542
Venus	87647-12-30 02:24 G	33733832.46	33733832.60	33733832.74	0.2655	0.1378
Mercury	87654-03-18 19:41 G	33736103.17	33736103.32	33736103.47	0.2699	0.0381
Venus	87655-12-27 15:08 G	33736752.10	33736752.13	33736752.17	0.2653	0.2573
Mercury	87656-09-18 20:24 G	33737018.27	33737018.35	33737018.43	0.2619	0.1914
Mercury	87663-09-12 18:58 G	33739568.21	33739568.29	33739568.37	0.2630	0.1760
Mercury	87667-03-21 22:34 G	33740854.40	33740854.44	33740854.49	0.2703	0.2555
Mercury	87676-09-14 13:12 G	33744318.94	33744319.05	33744319.17	0.2624	0.0529
Mercury	87687-03-16 22:20 G	33748154.31	33748154.43	33748154.54	0.2699	0.1670
Mercury	87689-09-17 07:12 G	33749069.69	33749069.80	33749069.91	0.2621	0.0894
Mercury	87700-03-20 01:41 G	33752905.43	33752905.57	33752905.72	0.2700	0.0643
Mercury	87702-09-21 01:12 G	33753820.48	33753820.55	33753820.62	0.2619	0.2082
Mercury	87709-09-14 00:00 G	33756370.40	33756370.50	33756370.59	0.2628	0.1545
Mercury	87722-09-16 18:15 G	33761121.14	33761121.26	33761121.37	0.2624	0.0160
Mercury	87733-03-18 04:34 G	33764956.56	33764956.69	33764956.82	0.2699	0.1294
Mercury	87735-09-19 12:00 G	33765871.89	33765872.00	33765872.11	0.2620	0.1026
Mercury	87742-09-12 10:20 G	33768421.91	33768421.93	33768421.95	0.2633	0.2587
Mercury	87746-03-21 07:41 G	33769707.69	33769707.82	33769707.95	0.2701	0.1248
Mercury	87748-09-21 06:15 G	33770622.72	33770622.76	33770622.79	0.2620	0.2469
Mercury	87755-09-15 04:48 G	33773172.60	33773172.70	33773172.80	0.2627	0.1270
Mercury	87768-09-16 23:03 G	33777923.34	33777923.46	33777923.57	0.2623	0.0045
Venus	87777-06-28 15:22 G	33781130.07	33781130.14	33781130.21	0.2673	0.2366
Mercury	87779-03-19 10:34 G	33781758.80	33781758.94	33781759.09	0.2699	0.0765
Mercury	87781-09-19 16:48 G	33782674.10	33782674.20	33782674.30	0.2619	0.1399

Venus	87785-06-26 07:12 G	33784049.64	33784049.80	33784049.95	0.2680	0.0422
Mercury	87788-09-12 15:22 G	33785224.09	33785224.14	33785224.18	0.2632	0.2394
Mercury	87792-03-21 13:41 G	33786509.95	33786510.07	33786510.19	0.2701	0.1552
Mercury	87794-09-22 11:03 G	33787424.95	33787424.96	33787424.96	0.2621	0.2607
Mercury	87801-09-16 09:51 G	33789974.80	33789974.91	33789975.01	0.2627	0.0963
Mercury	87814-09-19 03:51 G	33794725.54	33794725.66	33794725.77	0.2622	0.0331
Mercury	87825-03-20 16:48 G	33798561.05	33798561.20	33798561.34	0.2699	0.0327
Mercury	87827-09-21 21:51 G	33799476.31	33799476.41	33799476.50	0.2619	0.1575
Mercury	87834-09-14 20:24 G	33802026.27	33802026.35	33802026.42	0.2630	0.2009
Mercury	87838-03-23 19:41 G	33803312.23	33803312.32	33803312.41	0.2701	0.2095
Mercury	87847-09-17 14:39 G	33806777.00	33806777.11	33806777.22	0.2626	0.0759
Mercury	87858-03-18 19:12 G	33810612.22	33810612.30	33810612.38	0.2699	0.2268
Mercury	87860-09-19 08:39 G	33811527.74	33811527.86	33811527.97	0.2621	0.0588
Mercury	87871-03-21 22:34 G	33815363.29	33815363.44	33815363.59	0.2700	0.0057
Mercury	87873-09-22 02:39 G	33816278.53	33816278.61	33816278.69	0.2620	0.1902
Mercury	87880-09-15 01:12 G	33818828.48	33818828.55	33818828.63	0.2629	0.1864
Mercury	87884-03-24 01:56 G	33820114.53	33820114.58	33820114.63	0.2701	0.2506
Venus	87890-12-31 22:48 G	33822588.30	33822588.45	33822588.59	0.2663	0.0575
Mercury	87893-09-17 19:27 G	33823579.20	33823579.31	33823579.42	0.2625	0.0417
Venus	87898-12-29 18:58 G	33825508.19	33825508.29	33825508.40	0.2664	0.1825
Mercury	87904-03-20 01:27 G	33827414.46	33827414.56	33827414.66	0.2699	0.1979
Mercury	87906-09-21 13:27 G	33828329.95	33828330.06	33828330.17	0.2620	0.0807
Mercury	87917-03-23 04:34 G	33832165.54	33832165.69	33832165.83	0.2699	0.0629
Mercury	87919-09-24 07:27 G	33833080.74	33833080.81	33833080.87	0.2620	0.2139
Mercury	87926-09-17 06:15 G	33835630.66	33835630.76	33835630.85	0.2629	0.1459
Mercury	87939-09-20 00:15 G	33840381.40	33840381.51	33840381.63	0.2623	0.0276
Mercury	87950-03-21 07:27 G	33844216.68	33844216.81	33844216.94	0.2699	0.1339
Mercury	87952-09-21 18:15 G	33845132.16	33845132.26	33845132.37	0.2620	0.1150
Mercury	87959-09-15 16:48 G	33847682.18	33847682.20	33847682.21	0.2632	0.2597
Mercury	87963-03-24 10:48 G	33848967.81	33848967.95	33848968.09	0.2699	0.0922

Mercury	87965-09-24 12:15 G	33849882.96	33849883.01	33849883.06	0.2621	0.2366
Mercury	87972-09-17 11:03 G	33852432.86	33852432.96	33852433.06	0.2629	0.1326
Mercury	87985-09-20 05:03 G	33857183.60	33857183.71	33857183.83	0.2622	0.0151
Mercury	87996-03-21 13:27 G	33861018.92	33861019.06	33861019.19	0.2699	0.1069
Mercury	87998-09-22 23:17 G	33861934.37	33861934.47	33861934.57	0.2620	0.1312

89TH MILLENNIUM CE

This is a list of transits visible from Moon in the 89th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	88005-09-15 21:36 G	33864484.35	33864484.40	33864484.45	0.2632	0.2351		
Mercury	88009-03-24 16:48 G	33865770.08	33865770.20	33865770.32	0.2700	0.1588		
Mercury	88018-09-18 15:51 G	33869235.06	33869235.16	33869235.27	0.2627	0.0962		
Venus	88028-06-28 14:53 G	33872805.95	33872806.12	33872806.28	0.2670	0.0343		
Mercury	88031-09-21 10:05 G	33873985.80	33873985.92	33873986.03	0.2622	0.0259		
Mercury	88042-03-22 19:27 G	33877821.16	33877821.31	33877821.46	0.2698	0.0451		
Mercury	88044-09-23 03:51 G	33878736.57	33878736.66	33878736.75	0.2620	0.1668		
Mercury	88051-09-17 02:39 G	33881286.54	33881286.61	33881286.67	0.2632	0.2090		
Mercury	88055-03-25 23:03 G	33882572.35	33882572.46	33882572.56	0.2701	0.1846		
Mercury	88064-09-18 20:53 G	33886037.26	33886037.37	33886037.48	0.2625	0.0760		
Mercury	88075-03-20 21:51 G	33889872.37	33889872.41	33889872.46	0.2700	0.2558		
Mercury	88077-09-21 14:53 G	33890788.01	33890788.12	33890788.23	0.2622	0.0639		
Mercury	88088-03-23 01:41 G	33894623.42	33894623.57	33894623.72	0.2698	0.0094		
Mercury	88090-09-24 08:39 G	33895538.78	33895538.86	33895538.95	0.2620	0.1807		

Mercury	88097-09-17 07:27 G	33898088.73	33898088.81	33898088.89	0.2631	0.1786
Mercury	88101-03-27 05:03 G	33899374.65	33899374.71	33899374.76	0.2702	0.2467
Mercury	88110-09-21 01:41 G	33902839.46	33902839.57	33902839.69	0.2624	0.0469
Mercury	88121-03-22 03:51 G	33906674.57	33906674.66	33906674.76	0.2699	0.2052
Mercury	88123-09-23 19:41 G	33907590.21	33907590.32	33907590.43	0.2621	0.0802
Venus	88134-01-03 11:32 G	33911344.86	33911344.98	33911345.11	0.2658	0.1639
Mercury	88134-03-25 07:56 G	33911425.68	33911425.83	33911425.97	0.2699	0.0462
Mercury	88136-09-25 13:27 G	33912341.00	33912341.06	33912341.13	0.2620	0.2197
Venus	88142-01-01 02:39 G	33914264.48	33914264.61	33914264.73	0.2652	0.1713
Mercury	88143-09-19 12:29 G	33914890.93	33914891.02	33914891.11	0.2629	0.1589
Mercury	88156-09-21 06:44 G	33919641.66	33919641.78	33919641.89	0.2624	0.0195
Mercury	88167-03-23 10:05 G	33923476.81	33923476.92	33923477.04	0.2698	0.1688
Mercury	88169-09-24 00:29 G	33924392.41	33924392.52	33924392.62	0.2620	0.1101
Mercury	88180-03-25 13:56 G	33928227.94	33928228.08	33928228.22	0.2700	0.0892
Mercury	88182-09-26 18:29 G	33929143.22	33929143.27	33929143.32	0.2620	0.2362
Mercury	88189-09-19 17:17 G	33931693.12	33931693.22	33931693.32	0.2628	0.1203
Mercury	88202-09-23 11:32 G	33936443.86	33936443.98	33936444.09	0.2624	0.0043
Mercury	88213-03-24 16:20 G	33940279.05	33940279.18	33940279.32	0.2698	0.1053
Mercury	88215-09-26 05:17 G	33941194.62	33941194.72	33941194.82	0.2620	0.1361
Mercury	88222-09-19 03:51 G	33943744.61	33943744.66	33943744.71	0.2633	0.2306
Mercury	88226-03-27 19:41 G	33945030.19	33945030.32	33945030.45	0.2701	0.1268
Mercury	88235-09-21 22:20 G	33948495.32	33948495.43	33948495.53	0.2627	0.1067
Mercury	88248-09-23 16:20 G	33953246.06	33953246.18	33953246.29	0.2623	0.0368
Mercury	88259-03-25 22:34 G	33957081.30	33957081.44	33957081.59	0.2699	0.0750
Mercury	88261-09-26 10:05 G	33957996.83	33957996.92	33957997.01	0.2620	0.1605
Mercury	88268-09-19 08:53 G	33960546.80	33960546.87	33960546.93	0.2631	0.2128
Venus	88271-07-01 03:36 G	33961561.50	33961561.65	33961561.80	0.2679	0.0855
Mercury	88272-03-28 01:56 G	33961832.47	33961832.58	33961832.68	0.2701	0.1851
Mercury	88281-09-22 03:08 G	33965297.52	33965297.63	33965297.74	0.2627	0.0661
Mercury	88294-09-24 21:08 G	33970048.26	33970048.38	33970048.49	0.2621	0.0513

Mercury	88305-03-27 04:34 G	33973883.54	33973883.69	33973883.84	0.2699	0.0130
Mercury	88307-09-28 14:53 G	33974799.05	33974799.12	33974799.20	0.2620	0.1923
Mercury	88314-09-21 13:41 G	33977348.99	33977349.07	33977349.16	0.2630	0.1782
Mercury	88318-03-30 08:10 G	33978634.75	33978634.84	33978634.92	0.2701	0.2172
Mercury	88327-09-24 07:56 G	33982099.72	33982099.83	33982099.95	0.2626	0.0534
Mercury	88338-03-25 06:58 G	33985934.71	33985934.79	33985934.88	0.2699	0.2182
Mercury	88340-09-26 01:56 G	33986850.47	33986850.58	33986850.69	0.2621	0.0908
Mercury	88351-03-28 10:34 G	33990685.79	33990685.94	33990686.09	0.2699	0.0165
Mercury	88353-09-28 19:41 G	33991601.25	33991601.32	33991601.39	0.2620	0.2087
Mercury	88360-09-21 18:44 G	33994151.19	33994151.28	33994151.37	0.2630	0.1557
Mercury	88373-09-24 12:44 G	33998901.92	33998902.03	33998902.15	0.2624	0.0181
Venus	88377-01-05 03:51 G	34000100.52	34000100.66	34000100.80	0.2655	0.1351
Mercury	88384-03-25 13:12 G	34002736.94	34002737.05	34002737.16	0.2699	0.1821
Venus	88385-01-02 21:51 G	34003020.31	34003020.41	34003020.51	0.2659	0.1973
Mercury	88386-09-27 06:44 G	34003652.68	34003652.78	34003652.89	0.2621	0.1043
Mercury	88393-09-20 05:17 G	34006202.70	34006202.72	34006202.73	0.2633	0.2594
Mercury	88397-03-28 16:48 G	34007488.05	34007488.20	34007488.34	0.2699	0.0799
Mercury	88399-09-30 00:29 G	34008403.48	34008403.52	34008403.56	0.2621	0.2461
Mercury	88406-09-22 23:32 G	34010953.38	34010953.48	34010953.58	0.2630	0.1273
Mercury	88419-09-25 17:32 G	34015704.12	34015704.23	34015704.35	0.2623	0.0110
Mercury	88430-03-26 19:12 G	34019539.17	34019539.30	34019539.43	0.2698	0.1326
Mercury	88432-09-27 11:32 G	34020454.88	34020454.98	34020455.08	0.2621	0.1414
Mercury	88439-09-21 10:05 G	34023004.88	34023004.92	34023004.97	0.2633	0.2414
Mercury	88443-03-29 23:03 G	34024290.32	34024290.46	34024290.59	0.2699	0.1132
Mercury	88445-09-30 05:17 G	34025205.72	34025205.72	34025205.74	0.2620	0.2603
Mercury	88452-09-23 04:34 G	34027755.58	34027755.69	34027755.79	0.2628	0.0986
Mercury	88465-09-25 22:34 G	34032506.32	34032506.44	34032506.55	0.2622	0.0336
Mercury	88476-03-27 01:12 G	34036341.41	34036341.55	34036341.70	0.2698	0.0824
Mercury	88478-09-28 16:20 G	34037257.09	34037257.18	34037257.27	0.2620	0.1579
Mercury	88485-09-21 15:08 G	34039807.06	34039807.13	34039807.20	0.2633	0.2029

Mercury	88489-03-30 05:03 G	34041092.59	34041092.71	34041092.83	0.2701	0.1688
Mercury	88498-09-24 09:22 G	34044557.78	34044557.89	34044558.00	0.2626	0.0783
Mercury	88511-09-28 03:22 G	34049308.53	34049308.64	34049308.75	0.2622	0.0595
Venus	88514-07-03 14:10 G	34050317.93	34050318.09	34050318.25	0.2678	0.0159
Mercury	88522-03-29 07:27 G	34053143.67	34053143.81	34053143.96	0.2698	0.0434
Mercury	88524-09-29 21:08 G	34054059.30	34054059.38	34054059.46	0.2620	0.1890
Mercury	88531-09-23 19:56 G	34056609.26	34056609.33	34056609.41	0.2632	0.1892
Mercury	88535-04-01 11:03 G	34057894.87	34057894.96	34057895.05	0.2702	0.2120
Mercury	88544-09-25 14:10 G	34061359.98	34061360.09	34061360.21	0.2625	0.0413
Mercury	88555-03-27 09:36 G	34065194.86	34065194.90	34065194.94	0.2698	0.2573
Mercury	88557-09-28 08:10 G	34066110.73	34066110.84	34066110.95	0.2622	0.0820
Mercury	88568-03-29 13:41 G	34069945.92	34069946.07	34069946.22	0.2698	0.0176
Mercury	88570-10-01 01:56 G	34070861.52	34070861.58	34070861.65	0.2620	0.2146
Mercury	88577-09-24 00:58 G	34073411.45	34073411.54	34073411.63	0.2630	0.1491
Mercury	88581-04-01 17:03 G	34074697.16	34074697.21	34074697.26	0.2702	0.2519
Mercury	88590-09-26 19:12 G	34078162.18	34078162.30	34078162.41	0.2625	0.0276
Mercury	88601-03-28 15:51 G	34081997.05	34081997.16	34081997.27	0.2698	0.1879
Mercury	88603-09-30 12:58 G	34082912.93	34082913.04	34082913.14	0.2621	0.1143
Mercury	88610-09-23 11:32 G	34085462.97	34085462.98	34085462.98	0.2635	0.2622
Mercury	88614-03-31 19:41 G	34086748.17	34086748.32	34086748.47	0.2699	0.0478
Mercury	88616-10-02 06:58 G	34087663.74	34087663.79	34087663.83	0.2620	0.2406
Venus	88620-01-08 17:03 G	34088857.11	34088857.21	34088857.32	0.2660	0.1870
Mercury	88623-09-26 05:46 G	34090213.65	34090213.74	34090213.84	0.2629	0.1327
Venus	88628-01-06 10:48 G	34091776.80	34091776.95	34091777.11	0.2653	0.0615
Mercury	88636-09-28 00:00 G	34094964.38	34094964.50	34094964.61	0.2625	0.0139
Mercury	88647-03-29 22:05 G	34098799.30	34098799.42	34098799.55	0.2698	0.1578
Mercury	88649-09-30 17:46 G	34099715.14	34099715.24	34099715.34	0.2620	0.1296
Mercury	88656-09-23 16:20 G	34102265.14	34102265.18	34102265.23	0.2634	0.2395
Mercury	88660-04-01 01:41 G	34103550.43	34103550.57	34103550.71	0.2700	0.1112
Mercury	88669-09-26 10:48 G	34107015.84	34107015.95	34107016.05	0.2628	0.0966

Mercury	88682-09-29 04:48 G	34111766.58	34111766.70	34111766.81	0.2623	0.0270
Mercury	88693-03-30 04:19 G	34115601.54	34115601.68	34115601.82	0.2698	0.0941
Mercury	88695-10-01 22:34 G	34116517.35	34116517.44	34116517.53	0.2620	0.1695
Mercury	88702-09-25 21:22 G	34119067.33	34119067.39	34119067.46	0.2632	0.2114
Mercury	88706-04-03 07:55 G	34120352.70	34120352.83	34120352.96	0.2700	0.1391
Mercury	88715-09-28 15:36 G	34123818.04	34123818.15	34123818.26	0.2628	0.0766
Mercury	88728-09-30 09:36 G	34128568.78	34128568.90	34128569.01	0.2622	0.0624
Mercury	88739-04-01 10:19 G	34132403.78	34132403.93	34132404.07	0.2698	0.0596
Mercury	88741-10-03 03:22 G	34133319.56	34133319.64	34133319.73	0.2620	0.1833
Mercury	88748-09-26 02:24 G	34135869.52	34135869.60	34135869.68	0.2631	0.1782
Mercury	88752-04-03 14:10 G	34137154.99	34137155.09	34137155.18	0.2700	0.2063
Venus	88757-07-05 03:07 G	34139073.49	34139073.63	34139073.78	0.2675	0.1322
Mercury	88761-09-28 20:24 G	34140620.24	34140620.35	34140620.47	0.2627	0.0467
Mercury	88772-03-29 12:29 G	34144454.98	34144455.02	34144455.06	0.2698	0.2601
Mercury	88774-10-01 14:24 G	34145370.99	34145371.10	34145371.21	0.2621	0.0808
Mercury	88785-04-01 16:19 G	34149206.03	34149206.18	34149206.33	0.2699	0.0089
Mercury	88787-10-04 08:10 G	34150121.78	34150121.84	34150121.90	0.2621	0.2197
Mercury	88794-09-27 07:12 G	34152671.71	34152671.80	34152671.89	0.2631	0.1596
Mercury	88798-04-04 20:24 G	34153957.28	34153957.35	34153957.42	0.2701	0.2381
Mercury	88807-09-30 01:27 G	34157422.44	34157422.56	34157422.67	0.2625	0.0218
Mercury	88818-03-30 18:43 G	34161257.19	34161257.28	34161257.36	0.2698	0.2223
Mercury	88820-10-01 19:12 G	34162173.20	34162173.30	34162173.41	0.2621	0.1137
Mercury	88831-04-02 22:34 G	34166008.29	34166008.44	34166008.59	0.2698	0.0412
Mercury	88833-10-04 12:58 G	34166923.99	34166924.04	34166924.09	0.2621	0.2367
Mercury	88840-09-27 12:00 G	34169473.90	34169474.00	34169474.10	0.2631	0.1230
Mercury	88853-09-30 06:15 G	34174224.64	34174224.76	34174224.87	0.2624	0.0053
Venus	88863-01-09 12:15 G	34177612.89	34177613.01	34177613.12	0.2650	0.1872
Mercury	88864-03-31 00:43 G	34178059.41	34178059.53	34178059.65	0.2698	0.1621
Mercury	88866-10-03 00:00 G	34178975.41	34178975.50	34178975.60	0.2621	0.1377
Venus	88871-01-07 03:22 G	34180532.53	34180532.64	34180532.74	0.2653	0.1952

Mercury	88873-09-25 22:48 G	34181525.40	34181525.45	34181525.50	0.2634	0.2319
Mercury	88877-04-03 04:48 G	34182810.56	34182810.70	34182810.84	0.2699	0.0841
Mercury	88886-09-28 17:03 G	34186276.10	34186276.21	34186276.31	0.2629	0.1078
Mercury	88899-10-01 11:03 G	34191026.85	34191026.96	34191027.07	0.2623	0.0380
Mercury	88910-04-02 06:43 G	34194861.65	34194861.78	34194861.92	0.2697	0.1328
Mercury	88912-10-04 04:48 G	34195777.61	34195777.70	34195777.79	0.2621	0.1599
Mercury	88919-09-28 03:36 G	34198327.59	34198327.65	34198327.71	0.2634	0.2160
Mercury	88923-04-05 10:48 G	34199612.83	34199612.95	34199613.08	0.2700	0.1420
Mercury	88932-09-29 21:51 G	34203078.30	34203078.41	34203078.52	0.2627	0.0684
Mercury	88945-10-02 15:51 G	34207829.05	34207829.16	34207829.28	0.2623	0.0540
Mercury	88956-04-02 13:12 G	34211663.90	34211664.05	34211664.20	0.2697	0.0612
Mercury	88958-10-05 09:36 G	34212579.82	34212579.90	34212579.97	0.2620	0.1928
Mercury	88965-09-28 08:24 G	34215129.77	34215129.85	34215129.94	0.2633	0.1802
Mercury	88969-04-05 17:03 G	34216415.10	34216415.21	34216415.32	0.2701	0.1727
Mercury	88978-10-01 02:53 G	34219880.50	34219880.62	34219880.73	0.2626	0.0535
Mercury	88991-10-03 20:39 G	34224631.25	34224631.36	34224631.47	0.2623	0.0908
Venus	89000-07-07 10:05 G	34227829.77	34227829.92	34227830.08	0.2685	0.0062

90TH MILLENNIUM CE

This is a list of transits visible from Moon in the 90th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	89002-04-04 19:27 G	34228466.16	34228466.31	34228466.46	0.2698	0.0324		
Mercury	89004-10-06 14:24 G	34229382.03	34229382.10	34229382.17	0.2620	0.2092		

Mercury	89011-09-30 13:27 G	34231931.97	34231932.06	34231932.15	0.2631	0.1578
Mercury	89015-04-07 23:03 G	34233217.40	34233217.46	34233217.53	0.2702	0.2395
Mercury	89024-10-02 07:41 G	34236682.71	34236682.82	34236682.93	0.2626	0.0152
Mercury	89035-04-02 21:07 G	34240517.32	34240517.38	34240517.45	0.2697	0.2396
Mercury	89037-10-05 01:27 G	34241433.45	34241433.56	34241433.66	0.2622	0.1045
Mercury	89048-04-05 01:27 G	34245268.41	34245268.56	34245268.71	0.2699	0.0309
Mercury	89050-10-07 19:12 G	34246184.27	34246184.30	34246184.33	0.2620	0.2485
Mercury	89057-09-30 18:29 G	34248734.17	34248734.27	34248734.37	0.2630	0.1295
Mercury	89061-04-08 05:17 G	34250019.70	34250019.72	34250019.74	0.2702	0.2665
Mercury	89070-10-03 12:29 G	34253484.91	34253485.02	34253485.14	0.2626	0.0054
Mercury	89081-04-03 03:36 G	34257319.54	34257319.65	34257319.76	0.2697	0.1865
Mercury	89083-10-06 06:15 G	34258235.66	34258235.76	34258235.85	0.2621	0.1412
Mercury	89090-09-29 05:03 G	34260785.67	34260785.71	34260785.75	0.2635	0.2443
Mercury	89094-04-06 07:27 G	34262070.66	34262070.81	34262070.96	0.2700	0.0658
Mercury	89103-10-02 23:17 G	34265536.37	34265536.47	34265536.58	0.2629	0.0981
Venus	89106-01-12 19:55 G	34266369.27	34266369.33	34266369.39	0.2660	0.2419
Venus	89114-01-10 16:05 G	34269289.02	34269289.17	34269289.32	0.2656	0.0167
Mercury	89116-10-04 17:17 G	34270287.11	34270287.22	34270287.33	0.2624	0.0336
Mercury	89127-04-05 09:51 G	34274121.78	34274121.91	34274122.04	0.2698	0.1345
Mercury	89129-10-07 11:03 G	34275037.87	34275037.96	34275038.05	0.2620	0.1593
Mercury	89136-09-30 09:51 G	34277587.85	34277587.91	34277587.98	0.2633	0.2058
Mercury	89140-04-07 13:41 G	34278872.93	34278873.07	34278873.20	0.2700	0.1192
Mercury	89149-10-03 04:19 G	34282338.57	34282338.68	34282338.79	0.2629	0.0778
Mercury	89162-10-05 22:05 G	34287089.31	34287089.42	34287089.53	0.2623	0.0596
Mercury	89173-04-05 15:51 G	34290924.02	34290924.16	34290924.30	0.2698	0.0973
Mercury	89175-10-08 15:51 G	34291840.08	34291840.16	34291840.24	0.2621	0.1927
Mercury	89182-10-01 14:53 G	34294390.05	34294390.12	34294390.20	0.2632	0.1896
Mercury	89186-04-08 19:55 G	34295675.21	34295675.33	34295675.45	0.2700	0.1670
Mercury	89195-10-04 09:07 G	34299140.76	34299140.88	34299140.99	0.2628	0.0429
Mercury	89208-10-06 02:53 G	34303891.51	34303891.62	34303891.73	0.2622	0.0814

Mercury	89219-04-06 21:51 G	34307726.26	34307726.41	34307726.56	0.2698	0.0355
Mercury	89221-10-08 20:39 G	34308642.30	34308642.36	34308642.42	0.2621	0.2159
Mercury	89228-10-01 19:55 G	34311192.23	34311192.33	34311192.42	0.2632	0.1497
Mercury	89232-04-09 02:10 G	34312477.50	34312477.59	34312477.68	0.2701	0.2127
Mercury	89241-10-04 13:55 G	34315942.96	34315943.08	34315943.19	0.2626	0.0275
Venus	89243-07-09 05:46 G	34316585.58	34316585.74	34316585.90	0.2674	0.0874
Mercury	89252-04-04 00:00 G	34319777.44	34319777.50	34319777.56	0.2698	0.2453
Mercury	89254-10-07 07:41 G	34320693.72	34320693.82	34320693.93	0.2622	0.1162
Mercury	89265-04-07 04:05 G	34324528.52	34324528.67	34324528.82	0.2698	0.0070
Mercury	89267-10-10 01:27 G	34325444.51	34325444.56	34325444.60	0.2621	0.2389
Mercury	89274-10-03 00:43 G	34327994.43	34327994.53	34327994.63	0.2632	0.1352
Mercury	89278-04-10 08:10 G	34329279.84	34329279.84	34329279.85	0.2702	0.2702
Mercury	89287-10-05 18:43 G	34332745.16	34332745.28	34332745.39	0.2625	0.0134
Mercury	89298-04-05 06:15 G	34336579.67	34336579.76	34336579.85	0.2697	0.2153
Mercury	89300-10-08 12:29 G	34337495.92	34337496.02	34337496.12	0.2622	0.1330
Mercury	89307-10-02 11:31 G	34340045.93	34340045.98	34340046.02	0.2635	0.2392
Mercury	89311-04-09 10:34 G	34341330.79	34341330.94	34341331.08	0.2698	0.0668
Mercury	89320-10-04 05:31 G	34344796.63	34344796.73	34344796.84	0.2630	0.0977
Mercury	89333-10-06 23:31 G	34349547.37	34349547.48	34349547.60	0.2624	0.0265
Mercury	89344-04-06 12:15 G	34353381.88	34353382.01	34353382.13	0.2697	0.1542
Mercury	89346-10-09 17:17 G	34354298.13	34354298.22	34354298.31	0.2621	0.1688
Venus	89349-01-13 23:17 G	34355125.39	34355125.47	34355125.55	0.2647	0.2307
Mercury	89353-10-02 16:19 G	34356848.12	34356848.18	34356848.24	0.2634	0.2127
Venus	89357-01-11 12:00 G	34358044.85	34358045.00	34358045.15	0.2646	0.1022
Mercury	89357-04-09 16:34 G	34358133.05	34358133.19	34358133.34	0.2699	0.0947
Mercury	89366-10-05 10:34 G	34361598.83	34361598.94	34361599.04	0.2628	0.0774
Mercury	89379-10-08 04:19 G	34366349.57	34366349.68	34366349.79	0.2624	0.0656
Mercury	89390-04-07 18:29 G	34370184.13	34370184.27	34370184.41	0.2697	0.1128
Mercury	89392-10-09 22:05 G	34371100.34	34371100.42	34371100.50	0.2621	0.1829
Mercury	89399-10-03 21:07 G	34373650.30	34373650.38	34373650.46	0.2634	0.1826

Mercury	89403-04-11 22:48 G	34374935.33	34374935.45	34374935.57	0.2701	0.1584
Mercury	89412-10-06 15:22 G	34378401.03	34378401.14	34378401.25	0.2627	0.0479
Mercury	89425-10-09 09:07 G	34383151.78	34383151.88	34383151.99	0.2623	0.0825
Mercury	89436-04-09 00:58 G	34386986.39	34386986.54	34386986.68	0.2697	0.0584
Mercury	89438-10-12 02:53 G	34387902.56	34387902.62	34387902.68	0.2620	0.2215
Mercury	89445-10-05 02:10 G	34390452.50	34390452.59	34390452.67	0.2632	0.1619
Mercury	89449-04-12 04:48 G	34391737.60	34391737.70	34391737.80	0.2701	0.1933
Mercury	89458-10-07 20:10 G	34395203.23	34395203.34	34395203.46	0.2627	0.0191
Mercury	89471-10-10 13:55 G	34399953.98	34399954.08	34399954.18	0.2622	0.1123
Mercury	89482-04-10 06:58 G	34403788.64	34403788.79	34403788.94	0.2698	0.0087
Mercury	89484-10-12 07:41 G	34404704.78	34404704.82	34404704.87	0.2621	0.2390
Venus	89486-07-11 05:03 G	34405341.56	34405341.71	34405341.85	0.2689	0.0837
Mercury	89491-10-06 06:58 G	34407254.69	34407254.79	34407254.89	0.2631	0.1232
Mercury	89495-04-13 11:03 G	34408539.91	34408539.96	34408540.01	0.2701	0.2511
Mercury	89504-10-09 01:12 G	34412005.43	34412005.55	34412005.66	0.2626	0.0114
Mercury	89515-04-09 08:53 G	34415839.78	34415839.87	34415839.96	0.2696	0.2164
Mercury	89517-10-11 18:43 G	34416756.18	34416756.28	34416756.38	0.2621	0.1380
Mercury	89524-10-04 17:31 G	34419306.18	34419306.23	34419306.28	0.2635	0.2354
Mercury	89528-04-11 12:58 G	34420590.89	34420591.04	34420591.19	0.2699	0.0295
Mercury	89537-10-07 12:00 G	34424056.89	34424057.00	34424057.10	0.2630	0.1086
Mercury	89550-10-10 05:46 G	34428807.63	34428807.74	34428807.86	0.2625	0.0383
Mercury	89561-04-09 15:07 G	34432642.02	34432642.13	34432642.24	0.2697	0.1856
Mercury	89563-10-12 23:31 G	34433558.39	34433558.48	34433558.57	0.2621	0.1622
Mercury	89570-10-05 22:34 G	34436108.38	34436108.44	34436108.50	0.2634	0.2177
Mercury	89574-04-12 19:12 G	34437393.16	34437393.30	34437393.44	0.2699	0.0939
Mercury	89583-10-08 16:48 G	34440859.09	34440859.20	34440859.31	0.2630	0.0678
Mercury	89596-10-10 10:34 G	34445609.83	34445609.94	34445610.06	0.2624	0.0531
Venus	89600-01-14 18:15 G	34446801.11	34446801.26	34446801.40	0.2657	0.0565
Mercury	89607-04-10 21:07 G	34449444.25	34449444.38	34449444.52	0.2697	0.1190
Mercury	89609-10-13 04:19 G	34450360.61	34450360.68	34450360.76	0.2621	0.1949

Mercury	89616-10-06 03:36 G	34452910.57	34452910.65	34452910.73	0.2633	0.1819
Mercury	89620-04-13 01:41 G	34454195.43	34454195.57	34454195.70	0.2699	0.1256
Mercury	89629-10-08 21:36 G	34457661.29	34457661.40	34457661.51	0.2629	0.0542
Mercury	89642-10-11 15:22 G	34462412.03	34462412.14	34462412.25	0.2623	0.0916
Mercury	89653-04-11 03:22 G	34466246.50	34466246.64	34466246.78	0.2697	0.0880
Mercury	89655-10-14 09:07 G	34467162.81	34467162.88	34467162.95	0.2621	0.2120
Mercury	89662-10-07 08:24 G	34469712.76	34469712.85	34469712.94	0.2633	0.1579
Mercury	89666-04-14 07:55 G	34470997.73	34470997.83	34470997.93	0.2700	0.1962
Mercury	89675-10-10 02:24 G	34474463.49	34474463.60	34474463.72	0.2627	0.0181
Mercury	89688-10-11 20:24 G	34479214.24	34479214.35	34479214.45	0.2622	0.1063
Mercury	89699-04-12 09:36 G	34483048.75	34483048.90	34483049.05	0.2697	0.0240
Mercury	89701-10-15 13:41 G	34483965.04	34483965.07	34483965.11	0.2621	0.2483
Mercury	89708-10-08 13:27 G	34486514.96	34486515.06	34486515.15	0.2633	0.1299
Mercury	89712-04-15 14:10 G	34487800.00	34487800.09	34487800.17	0.2702	0.2249
Mercury	89721-10-11 07:27 G	34491265.69	34491265.81	34491265.92	0.2626	0.0113
Venus	89729-07-13 08:24 G	34494097.68	34494097.85	34494098.02	0.2676	0.0089
Mercury	89732-04-10 11:17 G	34495099.92	34495099.97	34495100.03	0.2697	0.2503
Mercury	89734-10-14 00:58 G	34496016.45	34496016.54	34496016.64	0.2622	0.1452
Mercury	89741-10-07 00:00 G	34498566.46	34498566.50	34498566.54	0.2635	0.2458
Mercury	89745-04-13 16:05 G	34499851.01	34499851.17	34499851.32	0.2697	0.0181
Mercury	89754-10-09 18:15 G	34503317.15	34503317.26	34503317.36	0.2631	0.1009
Mercury	89767-10-12 12:15 G	34508067.89	34508068.01	34508068.12	0.2625	0.0347
Mercury	89778-04-11 17:31 G	34511902.12	34511902.23	34511902.33	0.2696	0.1937
Mercury	89780-10-14 05:46 G	34512818.65	34512818.74	34512818.83	0.2622	0.1610
Mercury	89787-10-08 04:48 G	34515368.64	34515368.70	34515368.77	0.2635	0.2070
Mercury	89791-04-14 22:05 G	34516653.28	34516653.42	34516653.57	0.2698	0.0721
Mercury	89800-10-10 23:03 G	34520119.35	34520119.46	34520119.57	0.2629	0.0795
Mercury	89813-10-13 17:03 G	34524870.10	34524870.21	34524870.32	0.2625	0.0608
Mercury	89824-04-12 23:46 G	34528704.37	34528704.49	34528704.62	0.2696	0.1549
Mercury	89826-10-16 10:34 G	34529620.86	34529620.94	34529621.02	0.2621	0.1916

Mercury	89833-10-09 09:51 G	34532170.83	34532170.91	34532170.98	0.2635	0.1925
Mercury	89837-04-16 04:19 G	34533455.54	34533455.68	34533455.81	0.2700	0.1214
Venus	89843-01-16 23:03 G	34535557.30	34535557.46	34535557.63	0.2644	0.0342
Mercury	89846-10-12 04:05 G	34536921.55	34536921.67	34536921.78	0.2628	0.0427
Mercury	89859-10-14 21:51 G	34541672.30	34541672.41	34541672.52	0.2624	0.0846
Mercury	89870-04-14 06:15 G	34545506.61	34545506.76	34545506.90	0.2697	0.0867
Mercury	89872-10-16 15:22 G	34546423.08	34546423.14	34546423.20	0.2621	0.2170
Mercury	89879-10-10 14:39 G	34548973.02	34548973.11	34548973.20	0.2633	0.1524
Mercury	89883-04-17 10:19 G	34550257.81	34550257.93	34550258.05	0.2701	0.1611
Mercury	89892-10-12 08:53 G	34553723.75	34553723.87	34553723.98	0.2627	0.0271
Mercury	89905-10-16 02:24 G	34558474.50	34558474.60	34558474.71	0.2623	0.1167
Mercury	89916-04-15 12:29 G	34562308.87	34562309.02	34562309.17	0.2698	0.0558
Mercury	89918-10-18 20:10 G	34563225.30	34563225.34	34563225.38	0.2621	0.2435
Mercury	89925-10-11 19:41 G	34565775.22	34565775.32	34565775.42	0.2632	0.1348
Mercury	89929-04-18 16:48 G	34567060.12	34567060.20	34567060.28	0.2701	0.2262
Mercury	89938-10-14 13:41 G	34570525.95	34570526.07	34570526.18	0.2627	0.0142
Mercury	89951-10-17 07:12 G	34575276.70	34575276.80	34575276.90	0.2622	0.1322
Mercury	89958-10-10 06:15 G	34577826.72	34577826.76	34577826.80	0.2636	0.2438
Mercury	89962-04-16 18:29 G	34579111.11	34579111.27	34579111.42	0.2698	0.0119
Venus	89964-07-17 09:51 G	34579933.85	34579933.91	34579933.96	0.2682	0.2501
Mercury	89971-10-13 00:29 G	34582577.42	34582577.52	34582577.63	0.2631	0.0985
Venus	89972-07-15 00:43 G	34582853.41	34582853.53	34582853.66	0.2689	0.1539
Mercury	89975-04-19 23:03 G	34583862.43	34583862.46	34583862.50	0.2701	0.2602
Mercury	89984-10-14 18:29 G	34587328.15	34587328.27	34587328.38	0.2626	0.0274
Mercury	89995-04-14 20:24 G	34591162.25	34591162.35	34591162.44	0.2696	0.2090
Mercury	89997-10-17 12:00 G	34592078.92	34592079.00	34592079.09	0.2621	0.1719

91ST MILLENNIUM CE

This is a list of transits visible from Moon in the 91st millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	90004-10-10 11:17	G	34594628.91	34594628.97	34594629.03	0.2635	0.2149	
Mercury	90008-04-17 00:43	G	34595913.38	34595913.53	34595913.68	0.2699	0.0422	
Mercury	90017-10-13 05:31	G	34599379.62	34599379.73	34599379.83	0.2631	0.0770	
Mercury	90030-10-15 23:17	G	34604130.36	34604130.47	34604130.58	0.2625	0.0644	
Mercury	90041-04-15 02:24	G	34607964.48	34607964.60	34607964.72	0.2697	0.1684	
Mercury	90043-10-18 17:03	G	34608881.13	34608881.21	34608881.29	0.2622	0.1864	
Mercury	90050-10-11 16:19	G	34611431.10	34611431.18	34611431.26	0.2634	0.1818	
Mercury	90054-04-18 06:58	G	34612715.65	34612715.79	34612715.93	0.2699	0.1107	
Mercury	90063-10-14 10:19	G	34616181.82	34616181.93	34616182.04	0.2630	0.0466	
Mercury	90076-10-16 04:05	G	34620932.56	34620932.67	34620932.78	0.2623	0.0833	
Venus	90078-01-20 01:41	G	34621393.53	34621393.57	34621393.61	0.2650	0.2559	
Venus	90086-01-17 20:24	G	34624313.20	34624313.35	34624313.49	0.2653	0.0613	
Mercury	90087-04-16 08:39	G	34624766.72	34624766.86	34624766.99	0.2697	0.1205	
Mercury	90089-10-18 21:36	G	34625683.35	34625683.40	34625683.46	0.2622	0.2244	
Mercury	90096-10-11 21:07	G	34628233.29	34628233.38	34628233.47	0.2634	0.1624	
Mercury	90100-04-19 13:27	G	34629517.93	34629518.06	34629518.19	0.2699	0.1481	
Mercury	90109-10-15 15:07	G	34632984.02	34632984.13	34632984.24	0.2628	0.0195	
Mercury	90122-10-18 08:53	G	34637734.77	34637734.87	34637734.97	0.2623	0.1157	
Mercury	90133-04-17 14:53	G	34641568.97	34641569.12	34641569.27	0.2697	0.0631	
Mercury	90135-10-21 02:24	G	34642485.56	34642485.60	34642485.64	0.2622	0.2406	
Mercury	90142-10-14 01:55	G	34645035.48	34645035.58	34645035.68	0.2633	0.1244	
Mercury	90146-04-20 19:27	G	34646320.22	34646320.31	34646320.41	0.2701	0.2053	

Mercury	90155-10-16 19:55 G	34649786.22	34649786.33	34649786.44	0.2626	0.0026
Mercury	90168-10-18 13:41 G	34654536.98	34654537.07	34654537.17	0.2623	0.1401
Mercury	90175-10-12 12:43 G	34657086.98	34657087.03	34657087.08	0.2636	0.2362
Mercury	90179-04-18 21:22 G	34658371.24	34658371.39	34658371.54	0.2697	0.0205
Mercury	90188-10-14 06:43 G	34661837.68	34661837.78	34661837.89	0.2632	0.1094
Mercury	90192-04-21 01:41 G	34663122.53	34663122.57	34663122.62	0.2703	0.2553
Mercury	90201-10-18 00:43 G	34666588.42	34666588.53	34666588.65	0.2625	0.0398
Mercury	90212-04-16 22:34 G	34670422.39	34670422.44	34670422.50	0.2696	0.2485
Mercury	90214-10-20 18:29 G	34671339.18	34671339.27	34671339.36	0.2622	0.1642
Venus	90215-07-18 09:51 G	34671609.75	34671609.91	34671610.08	0.2683	0.0082
Mercury	90221-10-13 17:31 G	34673889.17	34673889.23	34673889.29	0.2636	0.2188
Mercury	90225-04-20 03:36 G	34675173.50	34675173.65	34675173.80	0.2698	0.0450
Mercury	90234-10-16 11:46 G	34678639.88	34678639.99	34678640.10	0.2630	0.0696
Mercury	90247-10-19 05:46 G	34683390.62	34683390.74	34683390.85	0.2625	0.0558
Mercury	90258-04-18 05:03 G	34687224.59	34687224.71	34687224.82	0.2695	0.1767
Mercury	90260-10-20 23:03 G	34688141.39	34688141.46	34688141.54	0.2622	0.1962
Mercury	90267-10-14 22:19 G	34690691.36	34690691.43	34690691.51	0.2636	0.1832
Mercury	90271-04-21 09:51 G	34691975.76	34691975.91	34691976.05	0.2699	0.0765
Mercury	90280-10-16 16:34 G	34695442.08	34695442.19	34695442.30	0.2629	0.0530
Mercury	90293-10-19 10:19 G	34700192.83	34700192.93	34700193.04	0.2625	0.0944
Mercury	90304-04-19 11:31 G	34704026.85	34704026.98	34704027.11	0.2696	0.1427
Mercury	90306-10-23 03:51 G	34704943.60	34704943.66	34704943.73	0.2621	0.2127
Mercury	90313-10-16 03:22 G	34707493.55	34707493.64	34707493.73	0.2634	0.1605
Mercury	90317-04-22 15:51 G	34708778.03	34708778.16	34708778.29	0.2700	0.1451
Mercury	90326-10-18 21:36 G	34712244.28	34712244.40	34712244.51	0.2628	0.0173
Venus	90329-01-21 08:24 G	34713069.70	34713069.85	34713070.00	0.2645	0.0868
Mercury	90339-10-21 15:07 G	34716995.03	34716995.13	34716995.24	0.2624	0.1077
Mercury	90350-04-20 17:31 G	34720829.09	34720829.23	34720829.38	0.2697	0.0774
Mercury	90352-10-23 08:39 G	34721745.84	34721745.86	34721745.89	0.2621	0.2525
Mercury	90359-10-17 08:24 G	34724295.75	34724295.85	34724295.94	0.2633	0.1312

Mercury	90363-04-23 22:19 G	34725580.31	34725580.43	34725580.54	0.2700	0.1762
Mercury	90372-10-19 02:24 G	34729046.49	34729046.60	34729046.71	0.2628	0.0055
Mercury	90385-10-21 19:55 G	34733797.23	34733797.33	34733797.42	0.2623	0.1445
Mercury	90392-10-14 18:58 G	34736347.25	34736347.29	34736347.32	0.2637	0.2482
Mercury	90396-04-20 23:46 G	34737631.33	34737631.49	34737631.64	0.2698	0.0376
Mercury	90405-10-17 13:12 G	34741097.95	34741098.05	34741098.16	0.2632	0.0990
Mercury	90409-04-24 04:34 G	34742382.63	34742382.69	34742382.75	0.2701	0.2477
Mercury	90418-10-20 07:12 G	34745848.68	34745848.80	34745848.91	0.2627	0.0365
Mercury	90429-04-19 01:12 G	34749682.50	34749682.55	34749682.61	0.2696	0.2518
Mercury	90431-10-23 00:43 G	34750599.44	34750599.53	34750599.62	0.2622	0.1630
Mercury	90438-10-15 23:46 G	34753149.43	34753149.49	34753149.56	0.2636	0.2102
Mercury	90442-04-22 06:00 G	34754433.59	34754433.75	34754433.90	0.2698	0.0157
Venus	90450-07-21 11:17 G	34757445.88	34757445.97	34757446.07	0.2679	0.2210
Mercury	90451-10-18 18:14 G	34757900.15	34757900.26	34757900.36	0.2632	0.0791
Venus	90458-07-18 22:19 G	34760365.30	34760365.43	34760365.57	0.2686	0.1417
Mercury	90464-10-20 12:00 G	34762650.88	34762651.00	34762651.11	0.2625	0.0627
Mercury	90475-04-20 07:41 G	34766484.72	34766484.82	34766484.91	0.2696	0.2131
Mercury	90477-10-23 05:31 G	34767401.66	34767401.73	34767401.81	0.2622	0.1968
Mercury	90484-10-16 04:48 G	34769951.63	34769951.70	34769951.78	0.2635	0.1924
Mercury	90488-04-22 12:14 G	34771235.86	34771236.01	34771236.16	0.2698	0.0704
Mercury	90497-10-18 23:02 G	34774702.34	34774702.46	34774702.57	0.2631	0.0432
Mercury	90510-10-22 16:34 G	34779453.09	34779453.19	34779453.30	0.2624	0.0843
Mercury	90521-04-21 13:41 G	34783286.94	34783287.07	34783287.20	0.2696	0.1464
Mercury	90523-10-25 10:19 G	34784203.87	34784203.93	34784203.99	0.2622	0.2200
Mercury	90530-10-18 09:50 G	34786753.82	34786753.91	34786754.00	0.2634	0.1517
Mercury	90534-04-24 18:43 G	34788038.15	34788038.28	34788038.42	0.2699	0.1162
Mercury	90543-10-21 03:50 G	34791504.54	34791504.66	34791504.77	0.2630	0.0267
Mercury	90556-10-22 21:36 G	34796255.29	34796255.40	34796255.50	0.2624	0.1197
Mercury	90567-04-22 19:55 G	34800089.19	34800089.33	34800089.47	0.2696	0.1157
Mercury	90569-10-25 15:07 G	34801006.09	34801006.13	34801006.16	0.2622	0.2440

Venus	90572-01-23 00:43 G	34801825.37	34801825.53	34801825.68	0.2647	0.0132
Mercury	90576-10-18 14:38 G	34803556.02	34803556.11	34803556.21	0.2634	0.1361
Mercury	90580-04-25 00:58 G	34804840.43	34804840.54	34804840.65	0.2700	0.1798
Mercury	90589-10-21 08:38 G	34808306.74	34808306.86	34808306.97	0.2628	0.0145
Mercury	90602-10-25 02:24 G	34813057.50	34813057.60	34813057.69	0.2624	0.1369
Mercury	90609-10-18 01:26 G	34815607.52	34815607.56	34815607.60	0.2637	0.2428
Mercury	90613-04-24 02:24 G	34816891.45	34816891.60	34816891.75	0.2696	0.0415
Mercury	90622-10-20 19:26 G	34820358.21	34820358.31	34820358.42	0.2634	0.0987
Mercury	90626-04-27 07:12 G	34821642.71	34821642.80	34821642.90	0.2702	0.2125
Mercury	90635-10-23 13:26 G	34825108.95	34825109.06	34825109.17	0.2626	0.0287
Mercury	90648-10-25 06:58 G	34829859.71	34829859.79	34829859.88	0.2623	0.1738
Mercury	90655-10-19 06:29 G	34832409.70	34832409.77	34832409.83	0.2637	0.2159
Mercury	90659-04-25 08:38 G	34833693.71	34833693.86	34833694.02	0.2697	0.0114
Mercury	90668-10-21 00:29 G	34837160.41	34837160.52	34837160.62	0.2632	0.0774
Mercury	90681-10-23 18:14 G	34841911.15	34841911.26	34841911.37	0.2626	0.0677
Mercury	90692-04-22 09:50 G	34845744.83	34845744.91	34845744.99	0.2695	0.2290
Mercury	90694-10-26 11:46 G	34846661.91	34846661.99	34846662.07	0.2623	0.1878
Venus	90701-07-22 08:24 G	34849121.70	34849121.85	34849122.00	0.2691	0.0609
Mercury	90701-10-20 11:17 G	34849211.89	34849211.97	34849212.05	0.2637	0.1848
Mercury	90705-04-26 14:53 G	34850495.97	34850496.12	34850496.27	0.2698	0.0573
Mercury	90714-10-23 05:17 G	34853962.61	34853962.72	34853962.83	0.2630	0.0473
Mercury	90727-10-25 23:02 G	34858713.36	34858713.46	34858713.57	0.2626	0.0854
Mercury	90738-04-24 16:19 G	34862547.06	34862547.18	34862547.30	0.2695	0.1751
Mercury	90740-10-27 16:34 G	34863464.13	34863464.19	34863464.25	0.2622	0.2257
Mercury	90747-10-21 16:05 G	34866014.08	34866014.17	34866014.26	0.2635	0.1634
Mercury	90751-04-27 21:07 G	34867298.24	34867298.38	34867298.52	0.2700	0.0974
Mercury	90760-10-23 10:05 G	34870764.81	34870764.92	34870765.04	0.2629	0.0185
Mercury	90773-10-26 03:50 G	34875515.56	34875515.66	34875515.76	0.2625	0.1169
Mercury	90784-04-24 22:34 G	34879349.30	34879349.44	34879349.58	0.2696	0.1181
Mercury	90786-10-28 21:22 G	34880266.35	34880266.39	34880266.43	0.2622	0.2436

Mercury	90793-10-21 20:53 G	34882816.28	34882816.37	34882816.47	0.2634	0.1256
Mercury	90797-04-28 03:36 G	34884100.52	34884100.65	34884100.77	0.2700	0.1541
Mercury	90806-10-24 14:53 G	34887567.01	34887567.12	34887567.24	0.2629	0.0118
Venus	90815-01-25 14:10 G	34890581.95	34890582.09	34890582.24	0.2648	0.0928
Mercury	90819-10-27 08:38 G	34892317.76	34892317.86	34892317.95	0.2623	0.1421
Venus	90823-01-23 06:43 G	34893501.68	34893501.78	34893501.89	0.2641	0.1958
Mercury	90826-10-20 07:41 G	34894867.78	34894867.82	34894867.87	0.2638	0.2385
Mercury	90830-04-26 04:48 G	34896151.55	34896151.70	34896151.85	0.2697	0.0797
Mercury	90839-10-23 01:55 G	34899618.48	34899618.58	34899618.68	0.2633	0.1087
Mercury	90843-04-29 09:50 G	34900902.82	34900902.91	34900903.01	0.2700	0.2074
Mercury	90852-10-24 19:41 G	34904369.21	34904369.32	34904369.44	0.2628	0.0404
Mercury	90865-10-27 13:26 G	34909119.97	34909120.06	34909120.14	0.2623	0.1657
Mercury	90872-10-20 12:43 G	34911669.97	34911670.03	34911670.08	0.2637	0.2209
Mercury	90876-04-26 11:02 G	34912953.81	34912953.96	34912954.12	0.2697	0.0109
Mercury	90885-10-23 06:43 G	34916420.67	34916420.78	34916420.89	0.2632	0.0678
Mercury	90889-04-29 16:19 G	34917705.14	34917705.18	34917705.23	0.2701	0.2559
Mercury	90898-10-26 00:29 G	34921171.41	34921171.52	34921171.64	0.2627	0.0569
Mercury	90909-04-25 12:29 G	34925004.95	34925005.02	34925005.09	0.2695	0.2382
Mercury	90911-10-29 18:14 G	34925922.18	34925922.26	34925922.33	0.2623	0.1993
Mercury	90918-10-22 17:31 G	34928472.15	34928472.23	34928472.31	0.2636	0.1840
Mercury	90922-04-28 17:31 G	34929756.07	34929756.23	34929756.38	0.2697	0.0213
Mercury	90931-10-25 11:46 G	34933222.88	34933222.99	34933223.10	0.2632	0.0538
Venus	90944-07-22 23:31 G	34937877.33	34937877.48	34937877.64	0.2683	0.0856
Mercury	90944-10-27 05:17 G	34937973.62	34937973.72	34937973.83	0.2625	0.0954
Mercury	90955-04-26 18:29 G	34941807.17	34941807.27	34941807.37	0.2695	0.2041
Mercury	90957-10-29 23:02 G	34942724.39	34942724.46	34942724.52	0.2623	0.2180
Mercury	90964-10-22 22:34 G	34945274.35	34945274.44	34945274.53	0.2635	0.1593
Mercury	90968-04-29 00:00 G	34946558.35	34946558.50	34946558.64	0.2698	0.0972
Mercury	90977-10-25 16:34 G	34950025.07	34950025.19	34950025.30	0.2631	0.0170
Mercury	90990-10-28 10:19 G	34954775.82	34954775.93	34954776.03	0.2624	0.1104

92ND MILLENNIUM CE

This is a list of transits visible from Moon in the 92nd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	91001-04-28 00:58	G	34958609.40	34958609.54	34958609.67	0.2695	0.1405	
Mercury	91003-11-01 03:36	G	34959526.62	34959526.65	34959526.68	0.2623	0.2536	
Mercury	91010-10-25 03:22	G	34962076.55	34962076.64	34962076.74	0.2635	0.1308	
Mercury	91014-05-01 06:14	G	34963360.63	34963360.76	34963360.89	0.2699	0.1283	
Mercury	91023-10-27 21:22	G	34966827.28	34966827.39	34966827.50	0.2628	0.0063	
Mercury	91036-10-29 14:53	G	34971578.03	34971578.12	34971578.22	0.2624	0.1494	
Mercury	91043-10-23 14:10	G	34974128.06	34974128.09	34974128.12	0.2638	0.2487	
Mercury	91047-04-29 07:26	G	34975411.66	34975411.81	34975411.95	0.2695	0.0935	
Mercury	91056-10-25 08:10	G	34978878.74	34978878.84	34978878.95	0.2635	0.1016	
Venus	91058-01-27 07:55	G	34979337.68	34979337.83	34979337.99	0.2641	0.0922	
Mercury	91060-05-01 12:29	G	34980162.91	34980163.02	34980163.12	0.2701	0.1958	
Mercury	91069-10-28 02:10	G	34983629.48	34983629.59	34983629.70	0.2627	0.0362	
Mercury	91082-10-30 19:41	G	34988380.23	34988380.32	34988380.41	0.2624	0.1657	
Mercury	91089-10-23 18:58	G	34990930.23	34990930.29	34990930.36	0.2638	0.2096	
Mercury	91093-04-29 13:41	G	34992213.92	34992214.07	34992214.22	0.2696	0.0376	
Mercury	91102-10-27 13:12	G	34995680.94	34995681.05	34995681.15	0.2633	0.0792	
Mercury	91106-05-03 18:43	G	34996965.21	34996965.28	34996965.35	0.2702	0.2357	
Mercury	91115-10-30 06:58	G	35000431.68	35000431.79	35000431.90	0.2627	0.0640	
Mercury	91128-11-01 00:29	G	35005182.44	35005182.52	35005182.59	0.2623	0.1972	

Mercury	91135-10-26 00:00 G	35007732.42	35007732.50	35007732.57	0.2637	0.1947
Mercury	91139-05-01 19:55 G	35009016.18	35009016.33	35009016.49	0.2698	0.0186
Mercury	91148-10-27 18:00 G	35012483.14	35012483.25	35012483.36	0.2631	0.0413
Mercury	91161-10-30 11:46 G	35017233.88	35017233.99	35017234.10	0.2627	0.0882
Mercury	91172-04-28 21:07 G	35021067.28	35021067.38	35021067.48	0.2694	0.2047
Mercury	91174-11-02 05:17 G	35021984.66	35021984.72	35021984.77	0.2622	0.2223
Venus	91179-07-28 10:05 G	35023713.84	35023713.92	35023714.00	0.2694	0.2309
Mercury	91181-10-26 04:48 G	35024534.61	35024534.70	35024534.79	0.2637	0.1538
Mercury	91185-05-02 02:10 G	35025818.44	35025818.59	35025818.74	0.2699	0.0574
Venus	91187-07-26 04:05 G	35026633.53	35026633.67	35026633.81	0.2696	0.1095
Mercury	91194-10-28 22:48 G	35029285.34	35029285.45	35029285.57	0.2630	0.0266
Mercury	91207-10-31 16:34 G	35034036.09	35034036.19	35034036.29	0.2626	0.1204
Mercury	91218-04-30 03:36 G	35037869.53	35037869.65	35037869.76	0.2695	0.1724
Mercury	91220-11-02 10:05 G	35038786.88	35038786.92	35038786.95	0.2622	0.2481
Mercury	91227-10-27 09:50 G	35041336.81	35041336.91	35041337.00	0.2635	0.1358
Mercury	91231-05-03 08:38 G	35042620.72	35042620.86	35042620.99	0.2699	0.1282
Mercury	91240-10-29 03:36 G	35046087.54	35046087.65	35046087.77	0.2630	0.0181
Mercury	91253-10-31 21:07 G	35050838.29	35050838.38	35050838.48	0.2624	0.1374
Mercury	91260-10-24 20:24 G	35053388.32	35053388.35	35053388.39	0.2639	0.2471
Mercury	91264-04-30 09:36 G	35054671.76	35054671.90	35054672.04	0.2696	0.1027
Mercury	91273-10-27 14:38 G	35058139.01	35058139.11	35058139.21	0.2634	0.0987
Mercury	91277-05-03 15:07 G	35059423.01	35059423.13	35059423.25	0.2699	0.1618
Mercury	91286-10-30 08:24 G	35062889.74	35062889.85	35062889.97	0.2629	0.0312
Mercury	91299-11-02 01:55 G	35067640.50	35067640.58	35067640.67	0.2623	0.1767
Venus	91301-01-29 16:34 G	35068094.06	35068094.19	35068094.32	0.2650	0.1260
Mercury	91306-10-27 01:26 G	35070190.50	35070190.56	35070190.62	0.2638	0.2177
Venus	91309-01-27 12:14 G	35071013.87	35071014.01	35071014.15	0.2645	0.1174
Mercury	91310-05-02 15:50 G	35071474.01	35071474.16	35071474.31	0.2697	0.0683
Mercury	91319-10-29 19:26 G	35074941.21	35074941.31	35074941.42	0.2633	0.0768
Mercury	91323-05-05 21:36 G	35076225.33	35076225.40	35076225.47	0.2700	0.2378

Mercury	91332-10-31 13:12 G	35079691.94	35079692.05	35079692.16	0.2628	0.0678
Mercury	91345-11-03 06:58 G	35084442.71	35084442.79	35084442.86	0.2623	0.1916
Mercury	91352-10-27 06:14 G	35086992.69	35086992.76	35086992.84	0.2637	0.1846
Mercury	91356-05-02 22:19 G	35088276.27	35088276.43	35088276.58	0.2697	0.0027
Mercury	91365-10-30 00:14 G	35091743.40	35091743.51	35091743.62	0.2633	0.0467
Mercury	91369-05-06 03:50 G	35093027.66	35093027.66	35093027.67	0.2702	0.2700
Mercury	91378-11-01 18:00 G	35096494.15	35096494.25	35096494.36	0.2626	0.0868
Mercury	91389-04-30 23:17 G	35100327.40	35100327.47	35100327.53	0.2695	0.2435
Mercury	91391-11-04 11:31 G	35101244.93	35101244.98	35101245.04	0.2623	0.2302
Mercury	91398-10-28 11:17 G	35103794.88	35103794.97	35103795.06	0.2636	0.1637
Mercury	91402-05-05 04:48 G	35105078.55	35105078.70	35105078.85	0.2697	0.0450
Mercury	91411-11-01 05:02 G	35108545.60	35108545.71	35108545.83	0.2632	0.0207
Mercury	91424-11-02 22:48 G	35113296.35	35113296.45	35113296.55	0.2625	0.1198
Venus	91430-07-28 02:53 G	35115389.46	35115389.62	35115389.78	0.2683	0.0811
Mercury	91435-05-03 05:31 G	35117129.62	35117129.73	35117129.85	0.2695	0.1791
Mercury	91437-11-05 16:19 G	35118047.14	35118047.18	35118047.22	0.2623	0.2464
Mercury	91444-10-29 16:05 G	35120597.07	35120597.17	35120597.27	0.2636	0.1251
Mercury	91448-05-05 11:17 G	35121880.83	35121880.97	35121881.11	0.2699	0.1029
Mercury	91457-11-01 10:05 G	35125347.80	35125347.92	35125348.03	0.2630	0.0094
Mercury	91470-11-04 03:36 G	35130098.56	35130098.65	35130098.75	0.2625	0.1453
Mercury	91477-10-28 02:53 G	35132648.58	35132648.62	35132648.67	0.2638	0.2393
Mercury	91481-05-03 12:14 G	35133931.87	35133932.01	35133932.14	0.2695	0.1397
Mercury	91490-10-30 20:53 G	35137399.27	35137399.37	35137399.47	0.2636	0.1098
Mercury	91494-05-06 17:31 G	35138683.11	35138683.23	35138683.36	0.2700	0.1599
Mercury	91503-11-03 14:53 G	35142150.01	35142150.12	35142150.23	0.2628	0.0420
Mercury	91516-11-05 08:24 G	35146900.77	35146900.85	35146900.94	0.2625	0.1702
Mercury	91523-10-30 07:55 G	35149450.77	35149450.83	35149450.89	0.2638	0.2204
Mercury	91527-05-05 18:29 G	35150734.12	35150734.27	35150734.42	0.2695	0.0670
Mercury	91536-11-01 01:55 G	35154201.47	35154201.58	35154201.68	0.2634	0.0694
Mercury	91540-05-08 00:00 G	35155485.40	35155485.50	35155485.60	0.2701	0.2009

Venus	91544-02-01 18:43 G	35156850.14	35156850.28	35156850.42	0.2637	0.1364
Mercury	91549-11-03 19:41 G	35158952.21	35158952.32	35158952.43	0.2628	0.0584
Venus	91552-01-30 07:26 G	35159769.72	35159769.81	35159769.89	0.2637	0.2258
Mercury	91562-11-06 13:12 G	35163702.97	35163703.05	35163703.12	0.2624	0.2013
Mercury	91569-10-30 12:43 G	35166252.95	35166253.03	35166253.11	0.2638	0.1846
Mercury	91573-05-06 00:58 G	35167536.39	35167536.54	35167536.69	0.2697	0.0334
Mercury	91582-11-02 06:43 G	35171003.67	35171003.78	35171003.89	0.2632	0.0513
Mercury	91595-11-05 00:29 G	35175754.42	35175754.52	35175754.63	0.2628	0.0985
Mercury	91606-05-04 01:55 G	35179587.55	35179587.58	35179587.60	0.2694	0.2658
Mercury	91608-11-06 17:46 G	35180505.18	35180505.24	35180505.31	0.2623	0.2187
Mercury	91615-10-31 17:31 G	35183055.14	35183055.23	35183055.32	0.2637	0.1625
Mercury	91619-05-07 07:12 G	35184338.64	35184338.80	35184338.95	0.2698	0.0387
Mercury	91628-11-02 11:31 G	35187805.87	35187805.98	35187806.10	0.2631	0.0166
Mercury	91641-11-05 05:17 G	35192556.62	35192556.72	35192556.82	0.2627	0.1126
Mercury	91652-05-04 08:10 G	35196389.74	35196389.84	35196389.94	0.2694	0.2002
Mercury	91654-11-07 22:34 G	35197307.43	35197307.44	35197307.46	0.2623	0.2584
Mercury	91661-10-31 22:34 G	35199857.34	35199857.44	35199857.53	0.2636	0.1321
Mercury	91665-05-07 13:26 G	35201140.92	35201141.06	35201141.21	0.2698	0.0729
Venus	91665-07-31 07:12 G	35201225.68	35201225.80	35201225.91	0.2692	0.1743
Venus	91673-07-28 23:46 G	35204145.35	35204145.49	35204145.63	0.2698	0.1089
Mercury	91674-11-03 16:34 G	35204608.07	35204608.19	35204608.30	0.2631	0.0102
Mercury	91687-11-06 09:50 G	35209358.82	35209358.91	35209359.01	0.2625	0.1500
Mercury	91694-10-30 09:07 G	35211908.85	35211908.88	35211908.91	0.2640	0.2510
Mercury	91698-05-05 14:24 G	35213191.97	35213192.10	35213192.23	0.2695	0.1528
Mercury	91707-11-03 03:22 G	35216659.54	35216659.64	35216659.75	0.2635	0.0991
Mercury	91711-05-09 19:55 G	35217943.20	35217943.33	35217943.46	0.2699	0.1447
Mercury	91720-11-04 21:22 G	35221410.27	35221410.39	35221410.50	0.2630	0.0402
Mercury	91733-11-07 14:38 G	35226161.03	35226161.11	35226161.20	0.2624	0.1681
Mercury	91740-10-31 14:10 G	35228711.02	35228711.09	35228711.15	0.2639	0.2127
Mercury	91744-05-06 20:38 G	35229994.22	35229994.36	35229994.51	0.2696	0.1027

Mercury	91753-11-03 08:24 G	35233461.74	35233461.85	35233461.95	0.2634	0.0784
Mercury	91757-05-10 02:38 G	35234745.50	35234745.61	35234745.71	0.2700	0.1876
Mercury	91766-11-06 01:55 G	35238212.47	35238212.58	35238212.69	0.2629	0.0658
Mercury	91779-11-08 19:26 G	35242963.24	35242963.31	35242963.38	0.2624	0.2024
Mercury	91786-11-01 19:12 G	35245513.22	35245513.30	35245513.37	0.2638	0.1940
Venus	91787-02-02 17:46 G	35245606.13	35245606.24	35245606.35	0.2648	0.1746
Mercury	91790-05-08 03:07 G	35246796.48	35246796.63	35246796.78	0.2696	0.0387
Venus	91795-01-31 14:24 G	35248525.98	35248526.10	35248526.23	0.2647	0.1356
Mercury	91799-11-04 13:12 G	35250263.94	35250264.05	35250264.16	0.2634	0.0411
Mercury	91803-05-12 08:53 G	35251547.82	35251547.87	35251547.93	0.2702	0.2482
Mercury	91812-11-07 06:43 G	35255014.68	35255014.78	35255014.89	0.2627	0.0881
Mercury	91825-11-10 00:14 G	35259765.46	35259765.51	35259765.57	0.2624	0.2259
Mercury	91832-11-03 00:00 G	35262315.41	35262315.50	35262315.59	0.2637	0.1531
Mercury	91836-05-09 09:36 G	35263598.75	35263598.90	35263599.06	0.2696	0.0071
Mercury	91845-11-05 18:00 G	35267066.14	35267066.25	35267066.36	0.2633	0.0244
Mercury	91858-11-08 11:31 G	35271816.88	35271816.98	35271817.08	0.2626	0.1242
Mercury	91869-05-07 10:19 G	35275649.86	35275649.93	35275650.00	0.2694	0.2389
Mercury	91871-11-11 05:02 G	35276567.68	35276567.71	35276567.74	0.2624	0.2511
Mercury	91878-11-04 05:02 G	35279117.61	35279117.71	35279117.80	0.2637	0.1359
Mercury	91882-05-10 16:05 G	35280401.02	35280401.17	35280401.32	0.2698	0.0748
Mercury	91891-11-06 22:48 G	35283868.34	35283868.45	35283868.56	0.2631	0.0163
Mercury	91904-11-09 16:19 G	35288619.09	35288619.18	35288619.28	0.2626	0.1420
Mercury	91911-11-03 15:50 G	35291169.12	35291169.16	35291169.19	0.2639	0.2461
Mercury	91915-05-09 16:48 G	35292452.07	35292452.20	35292452.32	0.2694	0.1624
Venus	91916-08-01 06:00 G	35292901.60	35292901.75	35292901.91	0.2687	0.0961
Mercury	91924-11-05 09:50 G	35295919.80	35295919.91	35295920.01	0.2637	0.0984
Mercury	91928-05-11 22:34 G	35297203.30	35297203.44	35297203.58	0.2700	0.1094
Mercury	91937-11-08 03:36 G	35300670.54	35300670.65	35300670.76	0.2629	0.0322
Mercury	91950-11-10 21:07 G	35305421.30	35305421.38	35305421.46	0.2626	0.1800
Mercury	91957-11-03 20:38 G	35307971.30	35307971.36	35307971.42	0.2639	0.2177

Mercury	91961-05-09 23:17 G	35309254.33	35309254.47	35309254.61	0.2695	0.1253
Mercury	91970-11-06 14:38 G	35312722.00	35312722.11	35312722.22	0.2635	0.0768
Mercury	91974-05-13 04:48 G	35314005.59	35314005.70	35314005.81	0.2701	0.1839
Mercury	91983-11-09 08:24 G	35317472.74	35317472.85	35317472.96	0.2629	0.0712
Mercury	91996-11-11 01:55 G	35322223.50	35322223.58	35322223.65	0.2625	0.1944

93RD MILLENNIUM CE

This is a list of transits visible from Moon in the 93rd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	92003-11-05 01:26 G	35324773.49	35324773.56	35324773.64	0.2639	0.1860		
Mercury	92007-05-11 05:31 G	35326056.58	35326056.73	35326056.88	0.2696	0.0592		
Mercury	92016-11-06 19:26 G	35329524.20	35329524.31	35329524.42	0.2633	0.0462		
Mercury	92020-05-13 11:17 G	35330807.89	35330807.97	35330808.06	0.2701	0.2180		
Mercury	92029-11-09 13:12 G	35334274.95	35334275.05	35334275.16	0.2629	0.0895		
Venus	92030-02-05 04:05 G	35334362.57	35334362.67	35334362.78	0.2637	0.2005		
Venus	92038-02-02 16:48 G	35337282.05	35337282.20	35337282.36	0.2633	0.0957		
Mercury	92042-11-12 06:29 G	35339025.72	35339025.77	35339025.83	0.2624	0.2320		
Mercury	92049-11-05 06:14 G	35341575.68	35341575.76	35341575.85	0.2638	0.1647		
Mercury	92053-05-11 11:46 G	35342858.84	35342858.99	35342859.15	0.2697	0.0128		
Mercury	92062-11-08 00:14 G	35346326.40	35346326.51	35346326.63	0.2632	0.0180		
Mercury	92075-11-10 18:00 G	35351077.15	35351077.25	35351077.35	0.2628	0.1224		
Mercury	92086-05-09 12:43 G	35354909.96	35354910.03	35354910.10	0.2694	0.2406		
Mercury	92088-11-12 11:31 G	35355827.94	35355827.98	35355828.01	0.2623	0.2499		

Mercury	92095-11-06 11:17 G	35358377.87	35358377.97	35358378.07	0.2637	0.1261
Mercury	92099-05-12 18:14 G	35359661.11	35359661.26	35359661.42	0.2698	0.0442
Mercury	92108-11-09 05:17 G	35363128.60	35363128.72	35363128.83	0.2632	0.0107
Mercury	92121-11-11 22:48 G	35367879.35	35367879.45	35367879.54	0.2626	0.1475
Mercury	92128-11-04 22:05 G	35370429.38	35370429.42	35370429.46	0.2640	0.2404
Mercury	92132-05-10 18:58 G	35371712.19	35371712.29	35371712.39	0.2694	0.2027
Mercury	92141-11-07 16:05 G	35375180.07	35375180.17	35375180.28	0.2636	0.1083
Mercury	92145-05-14 00:58 G	35376463.39	35376463.54	35376463.68	0.2698	0.1050
Venus	92151-08-05 06:58 G	35378737.69	35378737.79	35378737.89	0.2689	0.2080
Mercury	92154-11-10 10:05 G	35379930.81	35379930.92	35379931.03	0.2632	0.0436
Venus	92159-08-02 20:38 G	35381657.22	35381657.36	35381657.50	0.2696	0.1238
Mercury	92167-11-13 03:36 G	35384681.56	35384681.65	35384681.73	0.2625	0.1715
Mercury	92174-11-06 02:53 G	35387231.57	35387231.62	35387231.68	0.2639	0.2232
Mercury	92178-05-12 01:12 G	35388514.41	35388514.55	35388514.69	0.2695	0.1304
Mercury	92187-11-08 21:07 G	35391982.27	35391982.38	35391982.48	0.2635	0.0669
Mercury	92191-05-15 07:26 G	35393265.68	35393265.81	35393265.94	0.2699	0.1517
Mercury	92200-11-11 14:53 G	35396733.01	35396733.12	35396733.23	0.2630	0.0609
Mercury	92213-11-14 08:24 G	35401483.78	35401483.85	35401483.92	0.2625	0.2062
Mercury	92220-11-07 07:55 G	35404033.75	35404033.83	35404033.91	0.2639	0.1852
Mercury	92224-05-13 07:55 G	35405316.68	35405316.83	35405316.97	0.2695	0.0963
Mercury	92233-11-10 01:55 G	35408784.47	35408784.58	35408784.69	0.2635	0.0510
Mercury	92237-05-16 13:55 G	35410067.99	35410068.08	35410068.16	0.2701	0.2221
Mercury	92246-11-12 19:41 G	35413535.21	35413535.32	35413535.42	0.2628	0.1001
Mercury	92259-11-15 12:58 G	35418285.99	35418286.04	35418286.10	0.2625	0.2253
Mercury	92266-11-08 12:58 G	35420835.95	35420836.04	35420836.12	0.2638	0.1601
Mercury	92270-05-14 14:24 G	35422118.94	35422119.10	35422119.25	0.2696	0.0171
Venus	92273-02-06 21:07 G	35423118.27	35423118.38	35423118.49	0.2643	0.1845
Mercury	92279-11-11 06:43 G	35425586.67	35425586.78	35425586.89	0.2634	0.0122
Venus	92281-02-04 16:34 G	35426038.07	35426038.19	35426038.31	0.2646	0.1610
Mercury	92283-05-17 20:24 G	35426870.31	35426870.35	35426870.39	0.2702	0.2578

Mercury	92292-11-13 00:29 G	35430337.42	35430337.52	35430337.62	0.2627	0.1154
Mercury	92305-11-16 17:46 G	35435088.23	35435088.24	35435088.25	0.2624	0.2612
Mercury	92312-11-09 17:46 G	35437638.14	35437638.24	35437638.33	0.2638	0.1309
Mercury	92316-05-15 20:53 G	35438921.21	35438921.37	35438921.52	0.2697	0.0196
Mercury	92325-11-12 11:31 G	35442388.87	35442388.98	35442389.09	0.2632	0.0106
Mercury	92338-11-15 05:17 G	35447139.63	35447139.72	35447139.81	0.2627	0.1553
Mercury	92345-11-08 04:34 G	35449689.66	35449689.69	35449689.72	0.2640	0.2505
Mercury	92349-05-13 21:07 G	35450972.29	35450972.38	35450972.48	0.2693	0.2155
Mercury	92358-11-10 22:34 G	35454440.34	35454440.44	35454440.54	0.2638	0.1009
Mercury	92362-05-17 03:07 G	35455723.49	35455723.63	35455723.78	0.2699	0.0877
Mercury	92371-11-13 16:19 G	35459191.07	35459191.18	35459191.29	0.2630	0.0404
Mercury	92384-11-15 09:50 G	35463941.83	35463941.91	35463942.00	0.2627	0.1724
Mercury	92391-11-09 09:22 G	35466491.83	35466491.89	35466491.96	0.2640	0.2108
Venus	92394-08-07 15:07 G	35467494.10	35467494.13	35467494.16	0.2698	0.2630
Mercury	92395-05-15 03:50 G	35467774.53	35467774.66	35467774.79	0.2694	0.1600
Venus	92402-08-05 06:58 G	35470413.64	35470413.79	35470413.95	0.2695	0.0698
Mercury	92404-11-11 03:22 G	35471242.54	35471242.64	35471242.75	0.2636	0.0777
Mercury	92408-05-17 09:36 G	35472525.77	35472525.90	35472526.03	0.2700	0.1353
Mercury	92417-11-13 21:22 G	35475993.28	35475993.39	35475993.49	0.2630	0.0694
Mercury	92430-11-16 14:38 G	35480744.04	35480744.11	35480744.18	0.2625	0.2046
Mercury	92437-11-09 14:24 G	35483294.02	35483294.10	35483294.17	0.2640	0.1948
Mercury	92441-05-15 10:05 G	35484576.78	35484576.92	35484577.07	0.2695	0.0974
Mercury	92450-11-12 08:24 G	35488044.74	35488044.85	35488044.96	0.2635	0.0397
Mercury	92454-05-18 16:05 G	35489328.07	35489328.17	35489328.28	0.2700	0.1947
Mercury	92463-11-15 02:10 G	35492795.48	35492795.59	35492795.69	0.2630	0.0940
Mercury	92476-11-16 19:26 G	35497546.25	35497546.31	35497546.36	0.2624	0.2294
Mercury	92483-11-10 19:12 G	35500096.21	35500096.30	35500096.39	0.2639	0.1541
Mercury	92487-05-16 16:34 G	35501379.03	35501379.19	35501379.34	0.2697	0.0591
Mercury	92496-11-12 13:12 G	35504846.94	35504847.05	35504847.16	0.2633	0.0221
Mercury	92500-05-19 22:48 G	35506130.40	35506130.45	35506130.50	0.2700	0.2526

Mercury	92509-11-16 06:43 G	35509597.68	35509597.78	35509597.88	0.2629	0.1265
Mercury	92522-11-19 00:14 G	35514348.48	35514348.51	35514348.53	0.2624	0.2554
Venus	92524-02-08 01:41 G	35514794.41	35514794.57	35514794.74	0.2634	0.0105
Mercury	92529-11-12 00:00 G	35516898.41	35516898.50	35516898.60	0.2638	0.1364
Mercury	92533-05-17 22:48 G	35518181.30	35518181.45	35518181.61	0.2697	0.0172
Mercury	92542-11-14 18:00 G	35521649.14	35521649.25	35521649.36	0.2633	0.0193
Mercury	92555-11-17 11:31 G	35526399.89	35526399.98	35526400.07	0.2627	0.1440
Mercury	92562-11-10 10:48 G	35528949.92	35528949.95	35528949.99	0.2641	0.2484
Mercury	92566-05-15 23:17 G	35530232.39	35530232.47	35530232.55	0.2694	0.2293
Mercury	92575-11-13 05:02 G	35533700.61	35533700.71	35533700.81	0.2637	0.0978
Mercury	92579-05-19 05:31 G	35534983.58	35534983.73	35534983.88	0.2697	0.0514
Mercury	92588-11-14 22:48 G	35538451.34	35538451.45	35538451.56	0.2633	0.0340
Mercury	92601-11-18 16:19 G	35543202.10	35543202.18	35543202.26	0.2626	0.1828
Mercury	92608-11-11 15:50 G	35545752.10	35545752.16	35545752.22	0.2640	0.2187
Mercury	92612-05-17 05:46 G	35547034.63	35547034.74	35547034.85	0.2694	0.1894
Mercury	92621-11-14 09:50 G	35550502.81	35550502.91	35550503.02	0.2636	0.0744
Mercury	92625-05-20 12:00 G	35551785.87	35551786.00	35551786.14	0.2698	0.1318
Mercury	92634-11-17 03:36 G	35555253.54	35555253.65	35555253.76	0.2631	0.0731
Venus	92645-08-06 20:38 G	35559169.24	35559169.36	35559169.49	0.2691	0.1737
Mercury	92647-11-19 21:07 G	35560004.31	35560004.38	35560004.45	0.2625	0.1983
Mercury	92654-11-12 20:38 G	35562554.29	35562554.36	35562554.44	0.2640	0.1865
Mercury	92658-05-18 12:14 G	35563836.87	35563837.01	35563837.15	0.2695	0.1226
Mercury	92667-11-15 14:38 G	35567305.00	35567305.11	35567305.22	0.2636	0.0439
Mercury	92671-05-21 18:29 G	35568588.15	35568588.27	35568588.39	0.2700	0.1680
Mercury	92680-11-17 08:24 G	35572055.74	35572055.85	35572055.95	0.2629	0.0923
Mercury	92693-11-20 01:55 G	35576806.53	35576806.58	35576806.62	0.2625	0.2382
Mercury	92700-11-14 01:41 G	35579356.49	35579356.57	35579356.66	0.2639	0.1634
Mercury	92704-05-19 18:43 G	35580639.13	35580639.28	35580639.44	0.2695	0.0706
Mercury	92713-11-16 19:26 G	35584107.20	35584107.31	35584107.42	0.2635	0.0166
Mercury	92717-05-23 01:12 G	35585390.48	35585390.55	35585390.61	0.2702	0.2407

Mercury	92726-11-19 13:12 G	35588857.95	35588858.05	35588858.15	0.2628	0.1246
Mercury	92739-11-22 06:29 G	35593608.75	35593608.77	35593608.80	0.2625	0.2546
Mercury	92746-11-15 06:29 G	35596158.68	35596158.77	35596158.87	0.2639	0.1240
Mercury	92750-05-21 01:26 G	35597441.40	35597441.56	35597441.71	0.2696	0.0136
Venus	92759-02-12 03:07 G	35600630.52	35600630.63	35600630.74	0.2636	0.1883
Mercury	92759-11-18 00:29 G	35600909.40	35600909.52	35600909.63	0.2633	0.0144
Venus	92767-02-09 19:12 G	35603550.16	35603550.30	35603550.44	0.2640	0.1180
Mercury	92772-11-19 18:00 G	35605660.16	35605660.25	35605660.34	0.2628	0.1512
Mercury	92779-11-13 17:31 G	35608210.18	35608210.23	35608210.27	0.2640	0.2411
Mercury	92792-11-15 11:17 G	35612960.87	35612960.97	35612961.07	0.2639	0.1084
Mercury	92796-05-21 07:41 G	35614243.67	35614243.82	35614243.98	0.2698	0.0509
Mercury	92805-11-18 05:17 G	35617711.61	35617711.72	35617711.83	0.2632	0.0471
Mercury	92818-11-20 22:48 G	35622462.37	35622462.45	35622462.53	0.2628	0.1780
Mercury	92825-11-13 22:19 G	35625012.37	35625012.43	35625012.49	0.2641	0.2211
Mercury	92829-05-19 08:10 G	35626294.73	35626294.84	35626294.95	0.2693	0.1903
Mercury	92838-11-16 16:05 G	35629763.07	35629763.17	35629763.28	0.2637	0.0679
Mercury	92842-05-22 14:10 G	35631045.95	35631046.09	35631046.24	0.2699	0.0908
Mercury	92851-11-19 10:05 G	35634513.81	35634513.92	35634514.03	0.2631	0.0632
Mercury	92864-11-21 03:22 G	35639264.58	35639264.64	35639264.71	0.2627	0.2093
Mercury	92871-11-15 03:07 G	35641814.56	35641814.63	35641814.71	0.2641	0.1849
Mercury	92875-05-20 14:38 G	35643096.98	35643097.11	35643097.23	0.2694	0.1567
Venus	92880-08-10 10:34 G	35645005.85	35645005.94	35645006.03	0.2701	0.2157
Mercury	92884-11-16 21:07 G	35646565.27	35646565.38	35646565.49	0.2636	0.0493
Mercury	92888-05-22 20:38 G	35647848.24	35647848.36	35647848.48	0.2699	0.1677
Venus	92888-08-08 04:34 G	35647925.55	35647925.69	35647925.84	0.2701	0.0529
Mercury	92897-11-19 14:53 G	35651316.02	35651316.12	35651316.22	0.2631	0.1040
Mercury	92910-11-23 08:10 G	35656066.79	35656066.84	35656066.89	0.2625	0.2268
Mercury	92917-11-16 07:55 G	35658616.75	35658616.83	35658616.92	0.2640	0.1624
Mercury	92921-05-21 20:53 G	35659899.22	35659899.37	35659899.52	0.2696	0.0829
Mercury	92930-11-19 01:55 G	35663367.47	35663367.58	35663367.69	0.2634	0.0130

Mercury	92934-05-25 03:22 G	35664650.54	35664650.64	35664650.74	0.2699	0.2036
Mercury	92943-11-21 19:41 G	35668118.22	35668118.32	35668118.42	0.2630	0.1187
Mercury	92963-11-17 12:58 G	35675418.94	35675419.04	35675419.13	0.2639	0.1314
Mercury	92967-05-23 03:22 G	35676701.49	35676701.64	35676701.79	0.2696	0.0421
Mercury	92976-11-19 06:58 G	35680169.67	35680169.79	35680169.90	0.2634	0.0148
Mercury	92989-11-22 00:14 G	35684920.42	35684920.51	35684920.60	0.2628	0.1571
Mercury	92996-11-14 23:46 G	35687470.46	35687470.49	35687470.52	0.2642	0.2518

94TH MILLENNIUM CE

This is a list of transits visible from Moon in the 94th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	93009-11-18 17:46 G	35692221.14	35692221.24	35692221.34	0.2638	0.0985		
Venus	93010-02-12 07:55 G	35692306.67	35692306.83	35692306.98	0.2639	0.0072		
Mercury	93013-05-24 09:50 G	35693503.76	35693503.91	35693504.07	0.2696	0.0297		
Mercury	93022-11-21 11:46 G	35696971.88	35696971.99	35696972.09	0.2634	0.0449		
Mercury	93035-11-24 05:02 G	35701722.63	35701722.71	35701722.79	0.2627	0.1752		
Mercury	93042-11-17 04:34 G	35704272.63	35704272.69	35704272.75	0.2641	0.2133		
Mercury	93046-05-22 09:50 G	35705554.84	35705554.91	35705554.99	0.2694	0.2333		
Mercury	93055-11-19 22:48 G	35709023.34	35709023.45	35709023.55	0.2637	0.0762		
Mercury	93059-05-25 16:34 G	35710306.04	35710306.19	35710306.34	0.2697	0.0788		
Mercury	93068-11-21 16:19 G	35713774.08	35713774.18	35713774.29	0.2632	0.0705		
Mercury	93081-11-24 09:50 G	35718524.84	35718524.91	35718524.98	0.2626	0.2094		
Mercury	93088-11-17 09:36 G	35721074.83	35721074.90	35721074.97	0.2640	0.1943		

Mercury	93092-05-22 16:34 G	35722357.06	35722357.19	35722357.31	0.2694	0.1619
Mercury	93101-11-21 03:36 G	35725825.54	35725825.65	35725825.76	0.2637	0.0375
Mercury	93105-05-26 23:02 G	35727108.33	35727108.46	35727108.59	0.2699	0.1387
Mercury	93114-11-23 21:07 G	35730576.28	35730576.38	35730576.49	0.2630	0.0947
Mercury	93127-11-26 14:38 G	35735327.06	35735327.11	35735327.16	0.2626	0.2339
Venus	93131-08-12 00:00 G	35736681.37	35736681.50	35736681.63	0.2689	0.1735
Mercury	93134-11-19 14:38 G	35737877.02	35737877.11	35737877.19	0.2640	0.1535
Mercury	93138-05-24 23:17 G	35739159.32	35739159.47	35739159.61	0.2694	0.1200
Mercury	93147-11-22 08:24 G	35742627.74	35742627.85	35742627.96	0.2636	0.0207
Mercury	93151-05-28 05:46 G	35743910.64	35743910.74	35743910.84	0.2701	0.2033
Mercury	93160-11-24 01:55 G	35747378.49	35747378.58	35747378.68	0.2629	0.1309
Mercury	93173-11-26 19:26 G	35752129.30	35752129.31	35752129.31	0.2626	0.2612
Mercury	93180-11-19 19:26 G	35754679.22	35754679.31	35754679.40	0.2640	0.1346
Mercury	93184-05-25 05:46 G	35755961.58	35755961.74	35755961.89	0.2695	0.0429
Mercury	93193-11-22 13:12 G	35759429.94	35759430.05	35759430.16	0.2635	0.0198
Mercury	93197-05-28 12:14 G	35760712.95	35760713.01	35760713.07	0.2702	0.2469
Mercury	93206-11-25 06:43 G	35764180.69	35764180.78	35764180.88	0.2629	0.1485
Mercury	93213-11-18 06:14 G	35766730.73	35766730.76	35766730.79	0.2641	0.2480
Mercury	93226-11-21 00:14 G	35771481.41	35771481.51	35771481.61	0.2639	0.0968
Mercury	93230-05-26 12:14 G	35772763.85	35772764.01	35772764.16	0.2697	0.0101
Mercury	93239-11-23 18:00 G	35776232.14	35776232.25	35776232.36	0.2633	0.0369
Mercury	93252-11-25 11:31 G	35780982.90	35780982.98	35780983.06	0.2628	0.1876
Venus	93253-02-13 00:43 G	35781062.37	35781062.53	35781062.70	0.2633	0.0256
Mercury	93259-11-19 11:17 G	35783532.91	35783532.97	35783533.03	0.2641	0.2182
Mercury	93263-05-24 12:14 G	35784814.96	35784815.01	35784815.06	0.2692	0.2530
Mercury	93272-11-21 05:02 G	35788283.61	35788283.71	35788283.82	0.2638	0.0753
Mercury	93276-05-26 18:29 G	35789566.12	35789566.27	35789566.42	0.2698	0.0704
Mercury	93285-11-23 22:48 G	35793034.35	35793034.45	35793034.56	0.2632	0.0761
Mercury	93298-11-26 16:19 G	35797785.11	35797785.18	35797785.25	0.2627	0.2025
Mercury	93305-11-20 16:05 G	35800335.09	35800335.17	35800335.25	0.2641	0.1853

Mercury	93309-05-25 18:43 G	35801617.17	35801617.28	35801617.39	0.2693	0.1859
Mercury	93318-11-23 09:50 G	35805085.81	35805085.91	35805086.02	0.2637	0.0444
Mercury	93322-05-29 01:12 G	35806368.41	35806368.55	35806368.69	0.2699	0.1104
Mercury	93331-11-26 03:36 G	35809836.55	35809836.65	35809836.76	0.2632	0.0955
Mercury	93344-11-27 20:53 G	35814587.33	35814587.37	35814587.42	0.2626	0.2402
Mercury	93351-11-21 20:53 G	35817137.29	35817137.37	35817137.46	0.2641	0.1637
Mercury	93355-05-27 01:12 G	35818419.41	35818419.55	35818419.69	0.2695	0.1317
Mercury	93364-11-23 14:53 G	35821888.01	35821888.12	35821888.23	0.2635	0.0123
Venus	93366-08-15 07:26 G	35822517.72	35822517.81	35822517.89	0.2701	0.2216
Mercury	93368-05-29 07:55 G	35823170.72	35823170.83	35823170.94	0.2699	0.1862
Venus	93374-08-13 01:26 G	35825437.42	35825437.56	35825437.70	0.2704	0.1049
Mercury	93377-11-26 08:24 G	35826638.75	35826638.85	35826638.95	0.2631	0.1296
Mercury	93390-11-29 01:41 G	35831389.56	35831389.57	35831389.59	0.2625	0.2582
Mercury	93397-11-22 01:41 G	35833939.48	35833939.57	35833939.67	0.2640	0.1256
Mercury	93401-05-28 07:41 G	35835221.67	35835221.82	35835221.97	0.2696	0.0817
Mercury	93410-11-25 19:41 G	35838690.21	35838690.32	35838690.43	0.2635	0.0118
Mercury	93414-05-31 14:38 G	35839973.03	35839973.11	35839973.18	0.2700	0.2339
Mercury	93423-11-28 13:12 G	35843440.96	35843441.05	35843441.14	0.2629	0.1545
Mercury	93430-11-21 12:43 G	35845990.99	35845991.03	35845991.07	0.2642	0.2407
Mercury	93443-11-24 06:43 G	35850741.68	35850741.78	35850741.88	0.2639	0.1059
Mercury	93447-05-29 14:10 G	35852023.94	35852024.09	35852024.25	0.2696	0.0119
Mercury	93456-11-26 00:29 G	35855492.41	35855492.52	35855492.63	0.2635	0.0484
Mercury	93469-11-28 18:00 G	35860243.17	35860243.25	35860243.33	0.2628	0.1793
Mercury	93476-11-21 17:31 G	35862793.18	35862793.23	35862793.29	0.2642	0.2236
Mercury	93480-05-26 13:55 G	35864075.05	35864075.08	35864075.12	0.2693	0.2622
Mercury	93489-11-24 11:31 G	35867543.88	35867543.98	35867544.09	0.2638	0.0647
Mercury	93493-05-29 20:53 G	35868826.22	35868826.37	35868826.53	0.2696	0.0359
Venus	93496-02-16 10:05 G	35869818.77	35869818.92	35869819.07	0.2642	0.0043
Mercury	93502-11-28 05:17 G	35872294.61	35872294.72	35872294.83	0.2634	0.0663
Venus	93504-02-15 05:02 G	35872738.65	35872738.71	35872738.77	0.2637	0.2398

Mercury	93515-11-30 22:48 G	35877045.38	35877045.45	35877045.51	0.2627	0.2145
Mercury	93522-11-23 22:19 G	35879595.36	35879595.43	35879595.51	0.2641	0.1856
Mercury	93526-05-28 20:38 G	35880877.28	35880877.36	35880877.45	0.2693	0.2249
Mercury	93535-11-26 16:19 G	35884346.07	35884346.18	35884346.29	0.2638	0.0484
Mercury	93539-06-01 03:22 G	35885628.50	35885628.64	35885628.79	0.2698	0.1112
Mercury	93548-11-28 10:05 G	35889096.82	35889096.92	35889097.02	0.2631	0.1058
Mercury	93561-12-01 03:36 G	35893847.60	35893847.65	35893847.69	0.2627	0.2337
Mercury	93568-11-24 03:22 G	35896397.55	35896397.64	35896397.73	0.2640	0.1596
Mercury	93572-05-29 03:07 G	35897679.50	35897679.63	35897679.77	0.2693	0.1448
Mercury	93581-11-26 21:07 G	35901148.27	35901148.38	35901148.49	0.2637	0.0109
Mercury	93585-06-01 10:05 G	35902430.79	35902430.92	35902431.05	0.2700	0.1483
Mercury	93594-11-29 14:53 G	35905899.02	35905899.12	35905899.22	0.2630	0.1218
Venus	93609-08-17 17:17 G	35911274.18	35911274.22	35911274.27	0.2694	0.2566
Mercury	93614-11-25 08:10 G	35913199.75	35913199.84	35913199.94	0.2640	0.1297
Venus	93617-08-15 04:05 G	35914193.52	35914193.67	35914193.83	0.2691	0.1012
Mercury	93618-05-30 10:05 G	35914481.77	35914481.92	35914482.06	0.2694	0.1023
Mercury	93627-11-28 02:10 G	35917950.48	35917950.59	35917950.70	0.2636	0.0156
Mercury	93631-06-02 16:34 G	35919233.11	35919233.19	35919233.27	0.2701	0.2289
Mercury	93640-11-29 19:41 G	35922701.23	35922701.32	35922701.41	0.2630	0.1621
Mercury	93647-11-23 19:12 G	35925251.27	35925251.30	35925251.33	0.2642	0.2507
Mercury	93660-11-25 13:12 G	35930001.94	35930002.05	35930002.15	0.2640	0.0988
Mercury	93664-05-30 16:34 G	35931284.03	35931284.19	35931284.34	0.2696	0.0337
Mercury	93673-11-28 06:58 G	35934752.68	35934752.79	35934752.90	0.2634	0.0450
Mercury	93677-06-02 23:17 G	35936035.46	35936035.47	35936035.49	0.2701	0.2676
Mercury	93686-12-01 00:29 G	35939503.44	35939503.52	35939503.60	0.2629	0.1800
Mercury	93693-11-24 00:00 G	35942053.44	35942053.50	35942053.57	0.2642	0.2112
Mercury	93706-11-27 18:00 G	35946804.14	35946804.25	35946804.35	0.2640	0.0750
Mercury	93710-06-01 22:48 G	35948086.30	35948086.45	35948086.61	0.2697	0.0216
Mercury	93719-11-30 11:46 G	35951554.88	35951554.99	35951555.10	0.2633	0.0749
Mercury	93732-12-02 05:02 G	35956305.65	35956305.71	35956305.78	0.2629	0.2143

Venus	93739-02-18 09:22 G	35958574.72	35958574.89	35958575.06	0.2628	0.0299
Mercury	93739-11-26 05:02 G	35958855.63	35958855.71	35958855.78	0.2642	0.1940
Mercury	93743-05-30 22:48 G	35960137.37	35960137.45	35960137.53	0.2692	0.2263
Mercury	93752-11-27 22:48 G	35963606.34	35963606.45	35963606.56	0.2638	0.0369
Mercury	93756-06-02 05:31 G	35964888.58	35964888.73	35964888.88	0.2698	0.0765
Mercury	93765-11-30 16:34 G	35968357.09	35968357.19	35968357.29	0.2633	0.0995
Mercury	93778-12-03 09:50 G	35973107.86	35973107.91	35973107.95	0.2627	0.2384
Mercury	93785-11-26 09:50 G	35975657.82	35975657.91	35975657.99	0.2642	0.1531
Mercury	93789-05-31 05:17 G	35976939.61	35976939.72	35976939.83	0.2694	0.1872
Mercury	93798-11-29 03:50 G	35980408.55	35980408.66	35980408.77	0.2636	0.0199
Mercury	93802-06-04 12:14 G	35981690.88	35981691.01	35981691.14	0.2698	0.1442
Mercury	93811-12-02 21:22 G	35985159.29	35985159.39	35985159.48	0.2632	0.1337
Mercury	93831-11-28 14:38 G	35992460.02	35992460.11	35992460.20	0.2641	0.1351
Mercury	93835-06-02 11:45 G	35993741.84	35993741.99	35993742.13	0.2695	0.1085
Mercury	93844-11-30 08:38 G	35997210.75	35997210.86	35997210.97	0.2636	0.0247
Mercury	93848-06-04 18:57 G	35998493.18	35998493.29	35998493.40	0.2699	0.1940
Venus	93852-08-19 06:29 G	36000029.68	36000029.77	36000029.87	0.2697	0.2133
Mercury	93857-12-03 01:55 G	36001961.49	36001961.58	36001961.67	0.2631	0.1526
Venus	93860-08-16 22:19 G	36002949.33	36002949.43	36002949.54	0.2703	0.1944
Mercury	93864-11-26 01:41 G	36004511.53	36004511.57	36004511.60	0.2643	0.2481
Mercury	93877-11-28 19:26 G	36009262.21	36009262.31	36009262.42	0.2640	0.0968
Mercury	93881-06-02 18:29 G	36010544.11	36010544.27	36010544.42	0.2695	0.0717
Mercury	93890-12-01 13:26 G	36014012.95	36014013.06	36014013.17	0.2636	0.0402
Mercury	93903-12-05 06:43 G	36018763.71	36018763.78	36018763.86	0.2629	0.1909
Mercury	93910-11-28 06:29 G	36021313.71	36021313.77	36021313.83	0.2643	0.2182
Mercury	93923-12-01 00:29 G	36026064.41	36026064.52	36026064.63	0.2639	0.0712
Mercury	93927-06-05 00:57 G	36027346.39	36027346.54	36027346.70	0.2695	0.0138
Mercury	93936-12-02 18:00 G	36030815.15	36030815.25	36030815.36	0.2635	0.0794
Mercury	93949-12-05 11:31 G	36035565.91	36035565.98	36035566.05	0.2628	0.2066
Mercury	93956-11-28 11:17 G	36038115.90	36038115.97	36038116.05	0.2642	0.1863

Mercury	93960-06-02 00:43 G	36039397.48	36039397.53	36039397.57	0.2692	0.2582
Mercury	93969-12-01 05:17 G	36042866.61	36042866.72	36042866.83	0.2639	0.0400
Mercury	93973-06-05 07:55 G	36044148.67	36044148.83	36044148.98	0.2697	0.0543
Venus	93982-02-20 11:17 G	36047330.82	36047330.97	36047331.12	0.2641	0.0506
Mercury	93982-12-03 22:48 G	36047617.35	36047617.45	36047617.56	0.2633	0.0992
Venus	93990-02-18 07:26 G	36050250.73	36050250.81	36050250.89	0.2640	0.2226
Mercury	93995-12-06 16:19 G	36052368.15	36052368.18	36052368.21	0.2628	0.2472

95TH MILLENNIUM CE

This is a list of transits visible from Moon in the 95th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	94002-11-29 16:19 G		36054918.09	36054918.18	36054918.27	0.2641	0.1617	
Mercury	94006-06-03 07:12 G		36056199.70	36056199.80	36056199.91	0.2692	0.1977	
Mercury	94015-12-02 10:05 G		36059668.81	36059668.92	36059669.03	0.2639	0.0110	
Mercury	94019-06-06 14:24 G		36060950.96	36060951.10	36060951.24	0.2699	0.1266	
Mercury	94028-12-04 03:36 G		36064419.56	36064419.65	36064419.75	0.2631	0.1323	
Mercury	94048-11-29 21:07 G		36071720.29	36071720.38	36071720.48	0.2641	0.1223	
Mercury	94052-06-03 13:55 G		36073001.95	36073002.08	36073002.22	0.2693	0.1414	
Mercury	94061-12-02 14:53 G		36076471.01	36076471.12	36076471.23	0.2637	0.0146	
Mercury	94065-06-06 20:53 G		36077753.26	36077753.37	36077753.49	0.2700	0.1795	
Mercury	94074-12-05 08:38 G		36081221.77	36081221.86	36081221.94	0.2631	0.1602	
Mercury	94081-11-28 08:09 G		36083771.79	36083771.84	36083771.88	0.2642	0.2411	
Mercury	94094-12-01 01:55 G		36088522.48	36088522.58	36088522.68	0.2641	0.1057	

Mercury	94098-06-04 20:24 G	36089804.20	36089804.35	36089804.51	0.2695	0.0721
Venus	94103-08-20 07:41 G	36091705.66	36091705.82	36091705.98	0.2697	0.0422
Mercury	94107-12-04 19:41 G	36093273.21	36093273.32	36093273.43	0.2635	0.0518
Mercury	94111-06-09 03:36 G	36094555.59	36094555.65	36094555.72	0.2700	0.2413
Mercury	94120-12-06 13:12 G	36098023.98	36098024.05	36098024.13	0.2630	0.1870
Mercury	94127-11-30 12:57 G	36100573.98	36100574.04	36100574.10	0.2642	0.2206
Mercury	94140-12-02 06:43 G	36105324.68	36105324.78	36105324.89	0.2641	0.0643
Mercury	94144-06-06 03:07 G	36106606.47	36106606.63	36106606.79	0.2697	0.0310
Mercury	94153-12-05 00:43 G	36110075.42	36110075.53	36110075.63	0.2634	0.0700
Mercury	94166-12-07 18:00 G	36114826.19	36114826.25	36114826.31	0.2629	0.2183
Mercury	94173-11-30 17:45 G	36117376.17	36117376.24	36117376.32	0.2643	0.1838
Mercury	94186-12-03 11:45 G	36122126.88	36122126.99	36122127.09	0.2639	0.0465
Mercury	94190-06-07 09:36 G	36123408.75	36123408.90	36123409.06	0.2697	0.0513
Mercury	94199-12-06 05:31 G	36126877.63	36126877.73	36126877.83	0.2634	0.1116
Mercury	94212-12-08 22:48 G	36131628.40	36131628.45	36131628.49	0.2628	0.2373
Mercury	94219-12-02 22:33 G	36134178.36	36134178.44	36134178.53	0.2643	0.1609
Mercury	94223-06-06 09:21 G	36135459.79	36135459.89	36135459.98	0.2693	0.2135
Venus	94225-02-22 18:00 G	36136087.08	36136087.25	36136087.41	0.2628	0.0655
Mercury	94232-12-04 16:33 G	36138929.08	36138929.19	36138929.30	0.2638	0.0066
Mercury	94236-06-08 16:19 G	36140211.04	36140211.18	36140211.33	0.2697	0.0888
Mercury	94245-12-07 10:19 G	36143679.83	36143679.93	36143680.02	0.2633	0.1267
Mercury	94265-12-03 03:36 G	36150980.55	36150980.65	36150980.74	0.2642	0.1289
Mercury	94269-06-06 15:50 G	36152262.03	36152262.16	36152262.28	0.2694	0.1679
Mercury	94278-12-05 21:21 G	36155731.28	36155731.39	36155731.50	0.2637	0.0192
Mercury	94282-06-09 23:02 G	36157013.35	36157013.46	36157013.58	0.2698	0.1739
Mercury	94291-12-08 14:53 G	36160482.04	36160482.12	36160482.21	0.2632	0.1656
Mercury	94298-12-01 14:38 G	36163032.08	36163032.11	36163032.14	0.2643	0.2504
Mercury	94311-12-05 08:24 G	36167782.75	36167782.85	36167782.95	0.2641	0.0961
Mercury	94315-06-08 22:19 G	36169064.29	36169064.43	36169064.58	0.2694	0.0994
Mercury	94324-12-07 02:09 G	36172533.49	36172533.59	36172533.70	0.2637	0.0511

Mercury	94328-06-11 06:00 G	36173815.66	36173815.75	36173815.84	0.2700	0.2159
Mercury	94337-12-09 19:41 G	36177284.24	36177284.32	36177284.40	0.2630	0.1843
Venus	94338-08-24 09:36 G	36177541.78	36177541.90	36177542.02	0.2693	0.1812
Mercury	94344-12-02 19:26 G	36179834.24	36179834.31	36179834.37	0.2643	0.2119
Venus	94346-08-21 21:36 G	36180461.31	36180461.40	36180461.50	0.2699	0.2138
Mercury	94357-12-05 13:26 G	36184584.95	36184585.06	36184585.16	0.2640	0.0723
Mercury	94361-06-09 05:17 G	36185866.56	36185866.72	36185866.87	0.2695	0.0415
Mercury	94370-12-08 06:57 G	36189335.69	36189335.79	36189335.90	0.2636	0.0776
Mercury	94383-12-11 00:29 G	36194086.46	36194086.52	36194086.58	0.2629	0.2188
Mercury	94390-12-04 00:14 G	36196636.44	36196636.51	36196636.58	0.2643	0.1933
Mercury	94403-12-06 18:14 G	36201387.15	36201387.26	36201387.37	0.2640	0.0330
Mercury	94407-06-10 11:45 G	36202668.84	36202668.99	36202669.15	0.2696	0.0185
Mercury	94416-12-08 11:45 G	36206137.89	36206137.99	36206138.10	0.2634	0.1026
Mercury	94429-12-11 05:17 G	36210888.68	36210888.72	36210888.75	0.2629	0.2444
Mercury	94436-12-04 05:17 G	36213438.63	36213438.72	36213438.80	0.2642	0.1516
Mercury	94440-06-07 11:02 G	36214719.92	36214719.96	36214720.01	0.2692	0.2563
Mercury	94449-12-06 23:02 G	36218189.35	36218189.46	36218189.57	0.2639	0.0160
Mercury	94453-06-10 18:29 G	36219471.12	36219471.27	36219471.42	0.2698	0.0884
Mercury	94462-12-09 16:33 G	36222940.10	36222940.19	36222940.29	0.2632	0.1384
Venus	94468-02-24 12:29 G	36224842.88	36224843.02	36224843.17	0.2637	0.0803
Venus	94476-02-22 08:09 G	36227762.84	36227762.84	36227762.84	0.2639	0.2635
Mercury	94482-12-05 10:05 G	36230240.83	36230240.92	36230241.02	0.2642	0.1312
Mercury	94486-06-08 17:45 G	36231522.12	36231522.24	36231522.36	0.2692	0.1719
Mercury	94495-12-08 03:50 G	36234991.55	36234991.66	36234991.77	0.2638	0.0255
Mercury	94499-06-12 01:12 G	36236273.41	36236273.55	36236273.68	0.2700	0.1311
Mercury	94508-12-10 21:21 G	36239742.30	36239742.39	36239742.48	0.2631	0.1564
Mercury	94515-12-04 20:53 G	36242292.34	36242292.37	36242292.41	0.2643	0.2477
Mercury	94528-12-06 14:53 G	36247043.02	36247043.12	36247043.23	0.2642	0.0937
Mercury	94532-06-10 00:29 G	36248324.38	36248324.52	36248324.66	0.2694	0.1333
Mercury	94541-12-09 08:38 G	36251793.75	36251793.86	36251793.97	0.2636	0.0435

Mercury	94545-06-13 07:41 G	36253075.73	36253075.82	36253075.92	0.2700	0.2144
Mercury	94554-12-12 02:09 G	36256544.52	36256544.59	36256544.66	0.2631	0.1971
Mercury	94561-12-05 01:55 G	36259094.52	36259094.58	36259094.64	0.2643	0.2163
Mercury	94574-12-07 19:41 G	36263845.22	36263845.32	36263845.43	0.2641	0.0718
Mercury	94578-06-11 06:57 G	36265126.64	36265126.79	36265126.95	0.2696	0.0549
Mercury	94587-12-10 13:26 G	36268595.96	36268596.06	36268596.17	0.2635	0.0826
Venus	94589-08-23 08:09 G	36269217.70	36269217.84	36269217.99	0.2704	0.0870
Mercury	94591-06-14 14:38 G	36269878.06	36269878.11	36269878.16	0.2700	0.2544
Mercury	94600-12-13 06:57 G	36273346.72	36273346.79	36273346.85	0.2630	0.2124
Mercury	94607-12-07 06:57 G	36275896.71	36275896.79	36275896.86	0.2643	0.1822
Mercury	94620-12-09 00:43 G	36280647.42	36280647.53	36280647.64	0.2640	0.0389
Mercury	94624-06-12 13:41 G	36281928.91	36281929.07	36281929.23	0.2697	0.0095
Mercury	94633-12-11 18:14 G	36285398.16	36285398.26	36285398.36	0.2634	0.1037
Mercury	94646-12-14 11:31 G	36290148.95	36290148.98	36290149.01	0.2629	0.2501
Mercury	94653-12-07 11:45 G	36292698.90	36292698.99	36292699.07	0.2643	0.1608
Mercury	94657-06-10 12:57 G	36293980.01	36293980.04	36293980.07	0.2692	0.2640
Mercury	94666-12-10 05:31 G	36297449.62	36297449.73	36297449.84	0.2638	0.0054
Mercury	94670-06-13 20:24 G	36298731.20	36298731.35	36298731.50	0.2697	0.0640
Mercury	94679-12-12 23:02 G	36302200.37	36302200.46	36302200.55	0.2634	0.1379
Mercury	94699-12-08 16:33 G	36309501.09	36309501.19	36309501.28	0.2643	0.1222
Mercury	94703-06-12 19:26 G	36310782.22	36310782.31	36310782.41	0.2694	0.2173
Venus	94711-02-28 00:14 G	36313599.38	36313599.51	36313599.65	0.2632	0.1417
Mercury	94712-12-11 10:19 G	36314251.82	36314251.93	36314252.04	0.2638	0.0182
Mercury	94716-06-15 03:21 G	36315533.50	36315533.64	36315533.78	0.2698	0.1216
Venus	94719-02-25 13:55 G	36316518.94	36316519.08	36316519.21	0.2627	0.1577
Mercury	94725-12-14 03:50 G	36319002.57	36319002.66	36319002.74	0.2633	0.1637
Mercury	94732-12-07 03:36 G	36321552.61	36321552.65	36321552.69	0.2644	0.2388
Mercury	94745-12-09 21:21 G	36326303.29	36326303.39	36326303.49	0.2642	0.1025
Mercury	94749-06-13 02:09 G	36327584.46	36327584.59	36327584.73	0.2694	0.1380
Mercury	94758-12-12 15:07 G	36331054.02	36331054.13	36331054.24	0.2637	0.0556

Mercury	94762-06-16 10:05 G	36332335.80	36332335.92	36332336.03	0.2700	0.1828
Mercury	94771-12-15 08:38 G	36335804.78	36335804.86	36335804.93	0.2630	0.1884
Mercury	94778-12-08 08:24 G	36338354.79	36338354.85	36338354.91	0.2644	0.2208
Mercury	94791-12-11 02:24 G	36343105.49	36343105.60	36343105.70	0.2641	0.0614
Mercury	94795-06-14 08:53 G	36344386.73	36344386.87	36344387.02	0.2694	0.0963
Mercury	94804-12-12 19:55 G	36347856.22	36347856.33	36347856.44	0.2637	0.0731
Mercury	94808-06-16 16:48 G	36349138.15	36349138.20	36349138.25	0.2702	0.2557
Mercury	94817-12-15 13:12 G	36352607.00	36352607.05	36352607.11	0.2629	0.2243
Venus	94824-08-27 14:24 G	36355053.98	36355054.10	36355054.21	0.2692	0.1982
Mercury	94824-12-08 13:12 G	36355156.97	36355157.05	36355157.13	0.2643	0.1828
Venus	94832-08-25 00:00 G	36357973.37	36357973.50	36357973.64	0.2695	0.1541
Mercury	94837-12-11 07:12 G	36359907.69	36359907.80	36359907.91	0.2640	0.0421
Mercury	94841-06-14 15:50 G	36361189.00	36361189.16	36361189.31	0.2696	0.0137
Mercury	94850-12-14 00:43 G	36364658.43	36364658.53	36364658.63	0.2635	0.1136
Mercury	94863-12-16 18:00 G	36369409.21	36369409.25	36369409.29	0.2629	0.2429
Mercury	94870-12-09 18:14 G	36371959.17	36371959.26	36371959.34	0.2643	0.1564
Mercury	94883-12-12 12:00 G	36376709.89	36376710.00	36376710.11	0.2640	0.0066
Mercury	94887-06-15 22:33 G	36377991.28	36377991.44	36377991.60	0.2698	0.0304
Mercury	94896-12-14 05:31 G	36381460.63	36381460.73	36381460.83	0.2633	0.1305
Mercury	94916-12-10 23:02 G	36388761.37	36388761.46	36388761.56	0.2643	0.1259
Mercury	94920-06-13 21:36 G	36390042.32	36390042.40	36390042.48	0.2692	0.2341
Mercury	94929-12-13 16:48 G	36393512.09	36393512.20	36393512.31	0.2639	0.0191
Mercury	94933-06-17 05:02 G	36394793.57	36394793.71	36394793.86	0.2699	0.1118
Mercury	94942-12-16 10:19 G	36398262.85	36398262.93	36398263.01	0.2632	0.1703
Mercury	94949-12-09 10:05 G	36400812.88	36400812.92	36400812.95	0.2643	0.2486
Venus	94954-02-28 15:50 G	36402355.01	36402355.16	36402355.32	0.2631	0.0686
Mercury	94962-12-12 03:50 G	36405563.56	36405563.66	36405563.76	0.2643	0.0927
Mercury	94966-06-15 04:05 G	36406844.55	36406844.67	36406844.80	0.2694	0.1687
Mercury	94975-12-14 21:36 G	36410314.29	36410314.40	36410314.51	0.2637	0.0515
Mercury	94979-06-18 12:00 G	36411595.87	36411596.00	36411596.12	0.2699	0.1560

Mercury 94988-12-16 15:07 G 36415065.05 36415065.13 36415065.20 0.2632 0.1899

Mercury 94995-12-10 14:53 G 36417615.06 36417615.12 36417615.19 0.2644 0.2086

96TH MILLENNIUM CE

This is a list of transits visible from Moon in the 96th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	95008-12-13 08:38	G	36422365.76	36422365.86	36422365.97	0.2642	0.0704	
Mercury	95012-06-16 10:48	G	36423646.81	36423646.95	36423647.10	0.2696	0.1031	
Mercury	95021-12-16 02:24	G	36427116.50	36427116.60	36427116.71	0.2635	0.0835	
Mercury	95025-06-19 18:43	G	36428398.20	36428398.28	36428398.35	0.2700	0.2333	
Mercury	95034-12-18 19:41	G	36431867.27	36431867.32	36431867.38	0.2631	0.2244	
Mercury	95041-12-11 19:55	G	36434417.25	36434417.33	36434417.40	0.2644	0.1901	
Mercury	95054-12-14 13:41	G	36439167.96	36439168.07	36439168.17	0.2641	0.0329	
Mercury	95058-06-17 17:31	G	36440449.08	36440449.23	36440449.39	0.2696	0.0528	
Venus	95067-08-30 12:00	G	36443809.92	36443810.00	36443810.08	0.2707	0.2264	
Mercury	95067-12-17 07:12	G	36443918.70	36443918.80	36443918.90	0.2635	0.1069	
Venus	95075-08-28 06:57	G	36446729.67	36446729.79	36446729.92	0.2708	0.1508	
Mercury	95080-12-19 00:29	G	36448669.49	36448669.52	36448669.55	0.2629	0.2492	
Mercury	95087-12-13 00:43	G	36451219.44	36451219.53	36451219.61	0.2644	0.1495	
Mercury	95100-12-15 18:29	G	36455970.16	36455970.27	36455970.38	0.2639	0.0119	
Mercury	95104-06-19 00:14	G	36457251.35	36457251.51	36457251.67	0.2696	0.0253	
Mercury	95113-12-18 12:00	G	36460720.91	36460721.00	36460721.09	0.2635	0.1430	
Mercury	95133-12-14 05:31	G	36468021.63	36468021.73	36468021.82	0.2643	0.1307	

Mercury	95137-06-16 23:02 G	36469302.40	36469302.46	36469302.52	0.2693	0.2459
Mercury	95146-12-16 23:17 G	36472772.36	36472772.47	36472772.58	0.2638	0.0303
Mercury	95150-06-20 07:12 G	36474053.64	36474053.80	36474053.95	0.2697	0.0714
Mercury	95159-12-19 16:48 G	36477523.11	36477523.20	36477523.28	0.2633	0.1612
Mercury	95166-12-12 16:33 G	36480073.15	36480073.19	36480073.23	0.2645	0.2432
Mercury	95179-12-15 10:19 G	36484823.83	36484823.93	36484824.03	0.2642	0.0918
Mercury	95183-06-18 06:00 G	36486104.64	36486104.75	36486104.85	0.2693	0.2032
Mercury	95192-12-17 04:05 G	36489574.56	36489574.67	36489574.78	0.2638	0.0476
Mercury	95196-06-20 13:55 G	36490855.96	36490856.08	36490856.21	0.2699	0.1570
Venus	95197-03-03 03:07 G	36491111.54	36491111.63	36491111.71	0.2636	0.2150
Venus	95205-02-28 20:09 G	36494031.20	36494031.34	36494031.49	0.2631	0.1248
Mercury	95205-12-19 21:21 G	36494325.32	36494325.39	36494325.46	0.2631	0.2000
Mercury	95212-12-12 21:21 G	36496875.33	36496875.39	36496875.45	0.2645	0.2151
Mercury	95225-12-15 15:21 G	36501626.03	36501626.14	36501626.24	0.2641	0.0646
Mercury	95229-06-18 12:43 G	36502906.89	36502907.03	36502907.17	0.2694	0.1210
Mercury	95238-12-18 08:53 G	36506376.77	36506376.87	36506376.97	0.2637	0.0868
Mercury	95242-06-21 20:53 G	36507658.27	36507658.37	36507658.48	0.2701	0.2005
Mercury	95251-12-21 02:09 G	36511127.53	36511127.59	36511127.65	0.2630	0.2165
Mercury	95258-12-14 02:09 G	36513677.52	36513677.59	36513677.67	0.2644	0.1821
Mercury	95271-12-16 20:09 G	36518428.23	36518428.34	36518428.45	0.2641	0.0346
Mercury	95275-06-19 19:26 G	36519709.16	36519709.31	36519709.47	0.2695	0.0714
Mercury	95284-12-18 13:41 G	36523178.97	36523179.07	36523179.17	0.2636	0.1080
Mercury	95297-12-21 06:57 G	36527929.77	36527929.79	36527929.81	0.2630	0.2569
Mercury	95304-12-15 07:12 G	36530479.71	36530479.80	36530479.89	0.2643	0.1577
Venus	95310-09-01 18:29 G	36532566.25	36532566.27	36532566.29	0.2695	0.2670
Mercury	95317-12-18 00:57 G	36535230.43	36535230.54	36535230.65	0.2641	0.0038
Venus	95318-08-30 04:33 G	36535485.54	36535485.69	36535485.84	0.2694	0.1106
Mercury	95321-06-21 02:09 G	36536511.44	36536511.59	36536511.75	0.2697	0.0080
Mercury	95330-12-20 18:29 G	36539981.17	36539981.27	36539981.36	0.2634	0.1398
Mercury	95350-12-16 12:00 G	36547281.91	36547282.00	36547282.10	0.2643	0.1171

Mercury	95363-12-19 05:45 G	36552032.63	36552032.74	36552032.85	0.2640	0.0212
Mercury	95367-06-22 09:07 G	36553313.72	36553313.88	36553314.03	0.2699	0.0641
Mercury	95376-12-20 23:17 G	36556783.38	36556783.47	36556783.55	0.2632	0.1701
Mercury	95383-12-14 23:02 G	36559333.41	36559333.46	36559333.50	0.2644	0.2378
Mercury	95396-12-16 17:02 G	36564084.10	36564084.21	36564084.31	0.2643	0.0998
Mercury	95400-06-20 07:41 G	36565364.72	36565364.82	36565364.92	0.2693	0.2059
Mercury	95409-12-20 10:33 G	36568834.83	36568834.94	36568835.05	0.2638	0.0593
Mercury	95413-06-23 15:50 G	36570116.02	36570116.16	36570116.30	0.2699	0.1186
Mercury	95422-12-23 04:05 G	36573585.59	36573585.67	36573585.74	0.2632	0.1949
Mercury	95429-12-16 04:05 G	36576135.61	36576135.67	36576135.73	0.2644	0.2161
Venus	95440-03-04 21:50 G	36579867.26	36579867.41	36579867.57	0.2626	0.0982
Mercury	95442-12-18 21:36 G	36580886.30	36580886.40	36580886.51	0.2643	0.0584
Mercury	95446-06-21 14:38 G	36582166.98	36582167.11	36582167.23	0.2695	0.1645
Venus	95448-03-02 11:02 G	36582786.86	36582786.96	36582787.06	0.2629	0.2053
Mercury	95455-12-21 15:21 G	36585637.03	36585637.14	36585637.25	0.2636	0.0772
Mercury	95459-06-24 22:33 G	36586918.34	36586918.44	36586918.55	0.2700	0.1952
Mercury	95468-12-23 08:38 G	36590387.81	36590387.86	36590387.91	0.2632	0.2291
Mercury	95475-12-17 08:53 G	36592937.79	36592937.87	36592937.95	0.2645	0.1792
Mercury	95488-12-19 02:38 G	36597688.50	36597688.61	36597688.71	0.2641	0.0396
Mercury	95492-06-21 21:07 G	36598969.23	36598969.38	36598969.53	0.2696	0.0787
Mercury	95501-12-22 20:09 G	36602439.24	36602439.34	36602439.44	0.2635	0.1192
Mercury	95505-06-26 05:45 G	36603720.68	36603720.74	36603720.80	0.2701	0.2463
Mercury	95514-12-25 13:26 G	36607190.02	36607190.06	36607190.09	0.2630	0.2466
Mercury	95521-12-18 13:41 G	36609739.98	36609740.07	36609740.16	0.2645	0.1525
Mercury	95534-12-21 07:26 G	36614490.70	36614490.81	36614490.92	0.2640	0.0009
Mercury	95538-06-24 04:04 G	36615771.51	36615771.67	36615771.83	0.2696	0.0362
Mercury	95547-12-24 00:57 G	36619241.45	36619241.54	36619241.63	0.2635	0.1357
Venus	95553-09-03 11:16 G	36621321.84	36621321.97	36621322.09	0.2705	0.1554
Venus	95561-09-01 05:16 G	36624241.61	36624241.72	36624241.84	0.2709	0.1672
Mercury	95567-12-19 18:28 G	36626542.18	36626542.27	36626542.37	0.2644	0.1234

Mercury	95580-12-21 12:14 G	36631292.90	36631293.01	36631293.12	0.2639	0.0272
Mercury	95584-06-24 11:02 G	36632573.80	36632573.96	36632574.11	0.2697	0.0493
Mercury	95593-12-24 05:45 G	36636043.66	36636043.74	36636043.82	0.2634	0.1747
Mercury	95600-12-17 05:45 G	36638593.70	36638593.74	36638593.77	0.2645	0.2461
Mercury	95613-12-19 23:16 G	36643344.37	36643344.47	36643344.58	0.2643	0.0892
Mercury	95617-06-22 09:21 G	36644624.83	36644624.89	36644624.96	0.2694	0.2440
Mercury	95626-12-22 17:02 G	36648095.11	36648095.21	36648095.32	0.2638	0.0566
Mercury	95630-06-25 18:00 G	36649376.10	36649376.25	36649376.39	0.2699	0.1024
Mercury	95639-12-25 10:19 G	36652845.86	36652845.93	36652846.01	0.2632	0.1954
Mercury	95646-12-18 10:33 G	36655395.87	36655395.94	36655396.00	0.2645	0.2053
Mercury	95659-12-21 04:19 G	36660146.57	36660146.68	36660146.79	0.2642	0.0658
Mercury	95663-06-23 16:19 G	36661427.05	36661427.18	36661427.30	0.2694	0.1715
Mercury	95672-12-22 21:50 G	36664897.31	36664897.41	36664897.52	0.2638	0.0871
Mercury	95676-06-26 00:57 G	36666178.42	36666178.54	36666178.65	0.2701	0.1732
Venus	95683-03-07 04:19 G	36668623.60	36668623.68	36668623.76	0.2638	0.2246
Mercury	95685-12-25 15:07 G	36669648.07	36669648.13	36669648.18	0.2630	0.2257
Venus	95691-03-04 23:31 G	36671543.35	36671543.48	36671543.62	0.2634	0.1323
Mercury	95692-12-18 15:21 G	36672198.06	36672198.14	36672198.21	0.2645	0.1874
Mercury	95705-12-22 09:07 G	36676948.77	36676948.88	36676948.99	0.2641	0.0245
Mercury	95709-06-24 23:02 G	36678229.32	36678229.46	36678229.61	0.2695	0.1192
Mercury	95718-12-25 02:38 G	36681699.51	36681699.61	36681699.71	0.2636	0.1101
Mercury	95722-06-28 07:40 G	36682980.75	36682980.82	36682980.89	0.2702	0.2396
Mercury	95731-12-27 19:55 G	36686450.30	36686450.33	36686450.35	0.2630	0.2556
Mercury	95738-12-20 20:09 G	36689000.25	36689000.34	36689000.43	0.2644	0.1457
Mercury	95751-12-23 13:55 G	36693750.97	36693751.08	36693751.19	0.2641	0.0098
Mercury	95755-06-26 06:00 G	36695031.59	36695031.75	36695031.91	0.2698	0.0344
Mercury	95764-12-25 07:26 G	36698501.72	36698501.81	36698501.90	0.2634	0.1483
Mercury	95784-12-21 01:12 G	36705802.45	36705802.55	36705802.64	0.2644	0.1226
Mercury	95797-12-23 18:43 G	36710553.17	36710553.28	36710553.39	0.2640	0.0337
Mercury	95801-06-27 12:57 G	36711833.88	36711834.04	36711834.20	0.2699	0.0088

Venus	95804-09-03 09:50 G	36712997.76	36712997.91	36712998.06	0.2697	0.1148
Mercury	95810-12-27 12:14 G	36715303.92	36715304.01	36715304.09	0.2632	0.1652
Mercury	95817-12-20 12:00 G	36717853.96	36717854.00	36717854.05	0.2645	0.2401
Mercury	95830-12-23 06:00 G	36722604.65	36722604.75	36722604.85	0.2644	0.0869
Mercury	95843-12-25 23:31 G	36727355.38	36727355.48	36727355.59	0.2638	0.0531
Mercury	95847-06-28 19:40 G	36728636.17	36728636.32	36728636.47	0.2699	0.0965
Mercury	95856-12-27 16:48 G	36732106.14	36732106.20	36732106.27	0.2632	0.2066
Mercury	95863-12-21 17:02 G	36734656.15	36734656.21	36734656.27	0.2645	0.2114
Mercury	95876-12-23 10:48 G	36739406.84	36739406.95	36739407.06	0.2643	0.0607
Mercury	95880-06-25 18:00 G	36740687.15	36740687.25	36740687.36	0.2696	0.1952
Mercury	95889-12-26 04:19 G	36744157.58	36744157.68	36744157.79	0.2636	0.0903
Mercury	95893-06-29 02:38 G	36745438.48	36745438.61	36745438.74	0.2700	0.1400
Mercury	95902-12-29 21:36 G	36748908.34	36748908.40	36748908.46	0.2632	0.2228
Mercury	95909-12-22 21:50 G	36751458.33	36751458.41	36751458.50	0.2645	0.1743
Mercury	95922-12-25 15:36 G	36756209.04	36756209.15	36756209.26	0.2642	0.0315
Venus	95926-03-10 04:33 G	36757379.57	36757379.69	36757379.80	0.2624	0.1892
Mercury	95926-06-28 00:57 G	36757489.40	36757489.54	36757489.67	0.2696	0.1348
Venus	95934-03-07 15:36 G	36760299.01	36760299.15	36760299.29	0.2625	0.1376
Mercury	95935-12-28 09:07 G	36760959.78	36760959.88	36760959.98	0.2636	0.1152
Mercury	95939-07-01 09:36 G	36762240.82	36762240.90	36762240.99	0.2701	0.2271
Mercury	95948-12-30 02:09 G	36765710.58	36765710.59	36765710.61	0.2631	0.2600
Mercury	95955-12-24 02:52 G	36768260.53	36768260.62	36768260.70	0.2645	0.1549
Mercury	95968-12-25 20:24 G	36773011.24	36773011.35	36773011.46	0.2640	0.0075
Mercury	95972-06-28 07:40 G	36774291.67	36774291.82	36774291.98	0.2696	0.0702
Mercury	95981-12-28 13:55 G	36777761.99	36777762.08	36777762.17	0.2635	0.1460

97TH MILLENNIUM CE

This is a list of transits visible from Moon in the 97th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	96001-12-24 07:26	G	36785062.72	36785062.81	36785062.91	0.2645	0.1145	
Mercury	96014-12-27 01:12	G	36789813.45	36789813.55	36789813.66	0.2639	0.0270	
Mercury	96018-06-29 14:38	G	36791093.95	36791094.11	36791094.27	0.2697	0.0028	
Mercury	96027-12-29 18:43	G	36794564.19	36794564.28	36794564.36	0.2634	0.1751	
Mercury	96034-12-22 18:43	G	36797114.23	36797114.28	36797114.33	0.2646	0.2336	
Venus	96039-09-07 12:14	G	36798833.88	36798834.01	36798834.15	0.2700	0.1432	
Venus	96047-09-05 03:36	G	36801753.53	36801753.65	36801753.78	0.2706	0.1540	
Mercury	96047-12-25 12:28	G	36801864.92	36801865.02	36801865.12	0.2644	0.0952	
Mercury	96060-12-27 06:00	G	36806615.65	36806615.75	36806615.86	0.2639	0.0661	
Mercury	96064-06-29 21:36	G	36807896.25	36807896.40	36807896.56	0.2699	0.0571	
Mercury	96073-12-29 23:16	G	36811366.40	36811366.47	36811366.54	0.2633	0.1980	
Mercury	96080-12-22 23:31	G	36813916.42	36813916.48	36813916.54	0.2646	0.2134	
Mercury	96093-12-25 17:16	G	36818667.11	36818667.22	36818667.33	0.2643	0.0534	
Mercury	96097-06-27 19:55	G	36819947.25	36819947.33	36819947.40	0.2693	0.2340	
Mercury	96106-12-29 10:48	G	36823417.85	36823417.95	36823418.06	0.2639	0.0823	
Mercury	96110-07-02 04:33	G	36824698.56	36824698.69	36824698.82	0.2700	0.1426	
Mercury	96120-01-01 04:04	G	36828168.62	36828168.67	36828168.72	0.2631	0.2354	
Mercury	96126-12-25 04:19	G	36830718.60	36830718.68	36830718.76	0.2646	0.1772	
Mercury	96139-12-27 22:04	G	36835469.31	36835469.42	36835469.53	0.2642	0.0330	
Mercury	96143-06-30 02:38	G	36836749.48	36836749.61	36836749.75	0.2694	0.1443	
Mercury	96152-12-29 15:36	G	36840220.05	36840220.15	36840220.25	0.2637	0.1234	
Mercury	96156-07-02 11:31	G	36841500.87	36841500.98	36841501.09	0.2701	0.1857	

Mercury	96166-01-01 08:52 G	36844970.84	36844970.87	36844970.90	0.2631	0.2529
Venus	96169-03-11 04:04 G	36846135.56	36846135.67	36846135.78	0.2636	0.1773
Mercury	96172-12-25 09:07 G	36847520.80	36847520.88	36847520.97	0.2645	0.1491
Venus	96177-03-09 00:00 G	36849055.36	36849055.50	36849055.64	0.2636	0.1184
Mercury	96185-12-28 02:52 G	36852271.51	36852271.62	36852271.73	0.2642	0.0061
Mercury	96189-06-30 09:36 G	36853551.75	36853551.90	36853552.05	0.2696	0.0980
Mercury	96198-12-30 20:24 G	36857022.26	36857022.35	36857022.44	0.2635	0.1414
Mercury	96218-12-27 14:09 G	36864322.99	36864323.09	36864323.19	0.2645	0.1197
Mercury	96231-12-30 07:40 G	36869073.71	36869073.82	36869073.93	0.2641	0.0290
Mercury	96235-07-02 16:33 G	36870354.03	36870354.19	36870354.34	0.2698	0.0200
Mercury	96245-01-01 01:12 G	36873824.47	36873824.55	36873824.63	0.2634	0.1801
Mercury	96251-12-26 01:12 G	36876374.51	36876374.55	36876374.59	0.2645	0.2441
Mercury	96264-12-27 18:57 G	36881125.19	36881125.29	36881125.39	0.2645	0.0837
Mercury	96277-12-30 12:28 G	36885875.92	36885876.02	36885876.13	0.2639	0.0602
Mercury	96281-07-02 23:16 G	36887156.31	36887156.47	36887156.63	0.2698	0.0380
Venus	96282-09-09 22:04 G	36887590.39	36887590.42	36887590.45	0.2707	0.2643
Venus	96290-09-07 14:38 G	36890509.97	36890510.11	36890510.26	0.2703	0.1148
Mercury	96291-01-02 06:00 G	36890626.68	36890626.75	36890626.82	0.2634	0.2023
Mercury	96297-12-26 06:00 G	36893176.68	36893176.75	36893176.82	0.2645	0.2029
Mercury	96310-12-29 23:45 G	36897927.38	36897927.49	36897927.59	0.2644	0.0633
Mercury	96314-07-01 21:36 G	36899207.32	36899207.40	36899207.47	0.2694	0.2372
Mercury	96324-01-01 17:16 G	36902678.12	36902678.22	36902678.33	0.2638	0.0939
Mercury	96327-07-05 06:00 G	36903958.61	36903958.75	36903958.90	0.2698	0.1089
Mercury	96337-01-03 10:33 G	36907428.90	36907428.94	36907428.99	0.2633	0.2354
Mercury	96343-12-28 10:48 G	36909978.88	36909978.95	36909979.03	0.2646	0.1833
Mercury	96356-12-30 04:33 G	36914729.58	36914729.69	36914729.80	0.2643	0.0234
Mercury	96360-07-02 04:19 G	36916009.57	36916009.68	36916009.79	0.2695	0.1919
Mercury	96370-01-01 22:04 G	36919480.33	36919480.42	36919480.52	0.2637	0.1160
Mercury	96373-07-05 13:12 G	36920760.93	36920761.05	36920761.17	0.2699	0.1774
Mercury	96383-01-04 15:21 G	36924231.13	36924231.14	36924231.14	0.2632	0.2619

Mercury	96389-12-28 15:36 G	36926781.06	36926781.15	36926781.24	0.2646	0.1427
Mercury	96402-12-31 09:21 G	36931531.78	36931531.89	36931532.00	0.2642	0.0074
Mercury	96406-07-03 11:02 G	36932811.82	36932811.96	36932812.11	0.2695	0.1031
Mercury	96416-01-03 02:52 G	36936282.53	36936282.62	36936282.71	0.2637	0.1547
Mercury	96419-07-06 20:09 G	36937563.27	36937563.34	36937563.42	0.2701	0.2383
Venus	96420-03-10 23:31 G	36937811.32	36937811.48	36937811.64	0.2623	0.1001
Mercury	96435-12-29 20:24 G	36943583.26	36943583.35	36943583.45	0.2646	0.1233
Mercury	96448-12-31 14:24 G	36948333.99	36948334.10	36948334.20	0.2641	0.0403
Mercury	96452-07-03 18:14 G	36949614.10	36949614.26	36949614.41	0.2696	0.0584
Mercury	96462-01-03 07:40 G	36953084.74	36953084.82	36953084.90	0.2636	0.1722
Mercury	96468-12-27 07:40 G	36955634.78	36955634.82	36955634.87	0.2646	0.2366
Mercury	96481-12-30 01:26 G	36960385.45	36960385.56	36960385.66	0.2645	0.0853
Mercury	96495-01-01 19:12 G	36965136.19	36965136.30	36965136.40	0.2640	0.0586
Mercury	96498-07-05 01:12 G	36966416.39	36966416.55	36966416.70	0.2697	0.0327
Mercury	96508-01-05 12:14 G	36969886.95	36969887.01	36969887.08	0.2634	0.2122
Mercury	96514-12-29 12:28 G	36972436.96	36972437.02	36972437.08	0.2647	0.2098
Venus	96525-09-11 17:02 G	36976346.12	36976346.21	36976346.30	0.2696	0.2223
Mercury	96528-01-01 06:14 G	36977187.66	36977187.76	36977187.87	0.2644	0.0567
Mercury	96531-07-03 23:02 G	36978467.44	36978467.46	36978467.49	0.2692	0.2648
Venus	96533-09-09 04:48 G	36979265.58	36979265.70	36979265.83	0.2701	0.1672
Mercury	96541-01-02 23:45 G	36981938.39	36981938.49	36981938.59	0.2640	0.0969
Mercury	96544-07-06 08:09 G	36983218.69	36983218.84	36983218.99	0.2699	0.0800
Mercury	96554-01-05 17:02 G	36986689.16	36986689.21	36986689.26	0.2633	0.2292
Mercury	96560-12-29 17:16 G	36989239.14	36989239.22	36989239.30	0.2646	0.1753
Mercury	96574-01-01 11:16 G	36993989.86	36993989.97	36993990.07	0.2643	0.0289
Mercury	96577-07-04 06:00 G	36995269.65	36995269.75	36995269.86	0.2693	0.2036
Mercury	96587-01-04 04:33 G	36998740.59	36998740.69	36998740.79	0.2639	0.1190
Mercury	96590-07-07 15:07 G	37000021.00	37000021.13	37000021.25	0.2700	0.1634
Mercury	96606-12-31 22:04 G	37006041.34	37006041.42	37006041.51	0.2646	0.1522
Mercury	96620-01-03 15:50 G	37010792.05	37010792.16	37010792.27	0.2643	0.0114

Mercury	96623-07-06 12:57 G	37012071.91	37012072.04	37012072.18	0.2695	0.1388
Mercury	96633-01-05 09:21 G	37015542.80	37015542.89	37015542.98	0.2636	0.1504
Mercury	96636-07-08 21:50 G	37016823.32	37016823.41	37016823.51	0.2700	0.2168
Mercury	96653-01-01 03:07 G	37022843.53	37022843.63	37022843.73	0.2645	0.1105
Venus	96655-03-16 04:04 G	37023647.55	37023647.67	37023647.79	0.2631	0.1700
Venus	96663-03-13 22:04 G	37026567.28	37026567.42	37026567.57	0.2634	0.0856
Mercury	96666-01-03 20:38 G	37027594.25	37027594.36	37027594.47	0.2643	0.0295
Mercury	96669-07-06 19:55 G	37028874.17	37028874.33	37028874.48	0.2697	0.0615
Mercury	96679-01-06 14:09 G	37032345.01	37032345.09	37032345.17	0.2635	0.1824
Mercury	96685-12-30 14:09 G	37034895.04	37034895.09	37034895.14	0.2646	0.2323
Mercury	96699-01-02 07:55 G	37039645.73	37039645.83	37039645.93	0.2645	0.0915
Mercury	96712-01-06 01:26 G	37044396.46	37044396.56	37044396.67	0.2641	0.0687
Mercury	96715-07-09 02:38 G	37045676.46	37045676.61	37045676.77	0.2698	0.0144
Mercury	96725-01-07 18:57 G	37049147.22	37049147.29	37049147.35	0.2635	0.2059
Mercury	96732-01-01 18:57 G	37051697.23	37051697.29	37051697.36	0.2646	0.2105
Mercury	96745-01-03 12:43 G	37056447.92	37056448.03	37056448.14	0.2645	0.0497
Mercury	96758-01-06 06:14 G	37061198.66	37061198.76	37061198.87	0.2639	0.0882
Mercury	96761-07-09 09:36 G	37062478.75	37062478.90	37062479.06	0.2698	0.0754
Venus	96768-09-13 20:52 G	37065102.27	37065102.37	37065102.47	0.2710	0.1938
Mercury	96771-01-08 23:31 G	37065949.44	37065949.48	37065949.52	0.2634	0.2427
Venus	96776-09-11 15:50 G	37068022.01	37068022.16	37068022.30	0.2709	0.0853
Mercury	96778-01-02 00:00 G	37068499.42	37068499.50	37068499.58	0.2646	0.1738
Mercury	96791-01-04 17:31 G	37073250.12	37073250.23	37073250.34	0.2644	0.0305
Mercury	96794-07-07 07:40 G	37074529.73	37074529.82	37074529.91	0.2694	0.2170
Mercury	96804-01-07 11:02 G	37078000.87	37078000.96	37078001.06	0.2638	0.1305
Mercury	96807-07-10 16:48 G	37079281.06	37079281.20	37079281.34	0.2698	0.1242
Mercury	96817-01-09 04:19 G	37082751.67	37082751.68	37082751.69	0.2633	0.2609
Mercury	96824-01-03 04:48 G	37085301.61	37085301.70	37085301.79	0.2647	0.1458
Mercury	96837-01-04 22:19 G	37090052.32	37090052.43	37090052.54	0.2643	0.0094
Mercury	96840-07-07 14:38 G	37091331.99	37091332.11	37091332.23	0.2694	0.1685

Mercury	96850-01-07 15:50 G	37094803.07	37094803.16	37094803.25	0.2638	0.1479
Mercury	96853-07-10 23:45 G	37096083.40	37096083.49	37096083.59	0.2700	0.2150
Mercury	96856-12-31 15:50 G	37097353.15	37097353.16	37097353.17	0.2646	0.2618
Mercury	96870-01-03 09:36 G	37102103.80	37102103.90	37102103.99	0.2646	0.1172
Mercury	96883-01-06 03:21 G	37106854.53	37106854.64	37106854.74	0.2642	0.0370
Mercury	96886-07-08 21:21 G	37108134.24	37108134.39	37108134.55	0.2695	0.0864
Mercury	96896-01-08 20:38 G	37111605.28	37111605.36	37111605.44	0.2637	0.1871
Mercury	96899-07-12 06:57 G	37112885.76	37112885.79	37112885.82	0.2701	0.2631
Mercury	96903-01-02 20:52 G	37114155.32	37114155.37	37114155.41	0.2647	0.2408
Venus	96906-03-16 06:43 G	37115323.62	37115323.78	37115323.95	0.2626	0.0596
Mercury	96916-01-05 14:24 G	37118905.99	37118906.10	37118906.20	0.2646	0.0828
Mercury	96929-01-07 08:09 G	37123656.73	37123656.84	37123656.94	0.2641	0.0663
Mercury	96932-07-10 04:33 G	37124936.53	37124936.69	37124936.85	0.2696	0.0253
Mercury	96942-01-10 01:26 G	37128407.49	37128407.56	37128407.62	0.2635	0.2084
Mercury	96949-01-03 01:26 G	37130957.49	37130957.56	37130957.63	0.2647	0.1998
Mercury	96962-01-05 19:12 G	37135708.20	37135708.30	37135708.41	0.2645	0.0586
Mercury	96975-01-08 12:43 G	37140458.93	37140459.03	37140459.14	0.2641	0.0986
Mercury	96978-07-11 11:31 G	37141738.83	37141738.98	37141739.14	0.2698	0.0434
Mercury	96988-01-11 06:00 G	37145209.71	37145209.75	37145209.80	0.2633	0.2396
Mercury	96995-01-04 06:14 G	37147759.69	37147759.76	37147759.84	0.2647	0.1824

98TH MILLENNIUM CE

This is a list of transits visible from Moon in the 98th millennium CE.

PLANET	MAX- TRANSIT	C	START	MAX	END	SUNRAD	DEPTH	S
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TIME

Mercury	97008-01-08 00:00 G	37152510.40	37152510.50	37152510.61	0.2644	0.0202
Mercury	97011-07-10 09:21 G	37153789.85	37153789.89	37153789.93	0.2693	0.2590
Venus	97011-09-16 22:48 G	37153858.44	37153858.45	37153858.47	0.2696	0.2687
Venus	97019-09-14 09:36 G	37156777.78	37156777.90	37156778.02	0.2698	0.1865
Mercury	97021-01-09 17:31 G	37157261.14	37157261.23	37157261.33	0.2640	0.1217
Mercury	97024-07-12 18:28 G	37158541.13	37158541.27	37158541.41	0.2699	0.1193
Mercury	97041-01-05 11:16 G	37164561.87	37164561.97	37164562.06	0.2646	0.1400
Mercury	97054-01-08 05:02 G	37169312.60	37169312.71	37169312.82	0.2644	0.0070
Mercury	97057-07-10 16:19 G	37170592.06	37170592.18	37170592.30	0.2695	0.1700
Mercury	97067-01-10 22:19 G	37174063.35	37174063.43	37174063.52	0.2637	0.1599
Mercury	97070-07-14 01:26 G	37175343.44	37175343.56	37175343.68	0.2700	0.1734
Mercury	97074-01-03 22:19 G	37176613.43	37176613.43	37176613.44	0.2647	0.2632
Mercury	97087-01-06 16:04 G	37181364.08	37181364.17	37181364.27	0.2646	0.1163
Mercury	97100-01-09 09:50 G	37186114.80	37186114.91	37186115.01	0.2643	0.0448
Mercury	97103-07-12 23:16 G	37187394.33	37187394.47	37187394.61	0.2696	0.1244
Mercury	97113-01-12 03:07 G	37190865.55	37190865.63	37190865.71	0.2636	0.1780
Mercury	97116-07-15 08:24 G	37192145.81	37192145.85	37192145.89	0.2700	0.2597
Mercury	97120-01-06 03:07 G	37193415.59	37193415.63	37193415.68	0.2646	0.2357
Mercury	97133-01-07 20:52 G	37198166.27	37198166.37	37198166.48	0.2646	0.0806
Venus	97141-03-20 07:12 G	37201159.74	37201159.80	37201159.85	0.2625	0.2467
Mercury	97146-01-10 14:38 G	37202917.00	37202917.11	37202917.21	0.2642	0.0633
Venus	97149-03-17 21:50 G	37204079.26	37204079.41	37204079.56	0.2630	0.0868
Mercury	97149-07-13 06:00 G	37204196.60	37204196.75	37204196.91	0.2697	0.0364
Mercury	97159-01-13 07:55 G	37207667.77	37207667.83	37207667.89	0.2635	0.2203
Mercury	97166-01-06 08:09 G	37210217.77	37210217.84	37210217.90	0.2646	0.2062
Mercury	97179-01-09 01:55 G	37214968.47	37214968.58	37214968.68	0.2646	0.0538
Mercury	97192-01-11 19:26 G	37219719.21	37219719.31	37219719.41	0.2640	0.1010
Mercury	97195-07-14 13:12 G	37220998.89	37220999.05	37220999.21	0.2697	0.0134
Mercury	97205-01-13 12:28 G	37224469.98	37224470.02	37224470.07	0.2635	0.2372

Mercury	97212-01-07 12:57 G	37227019.96	37227020.04	37227020.12	0.2647	0.1682
Mercury	97225-01-09 06:43 G	37231770.67	37231770.78	37231770.88	0.2645	0.0251
Mercury	97238-01-12 00:14 G	37236521.41	37236521.51	37236521.60	0.2639	0.1272
Mercury	97241-07-14 20:09 G	37237801.20	37237801.34	37237801.49	0.2698	0.0986
Venus	97254-09-17 20:09 G	37242614.23	37242614.34	37242614.45	0.2710	0.1849
Mercury	97258-01-07 17:45 G	37243822.15	37243822.24	37243822.33	0.2647	0.1478
Venus	97262-09-15 15:35 G	37245534.01	37245534.15	37245534.29	0.2711	0.0813
Mercury	97271-01-10 11:31 G	37248572.87	37248572.98	37248573.09	0.2644	0.0138
Mercury	97274-07-12 17:45 G	37249852.15	37249852.24	37249852.34	0.2694	0.2123
Mercury	97284-01-13 04:48 G	37253323.62	37253323.70	37253323.79	0.2638	0.1580
Mercury	97287-07-16 03:21 G	37254603.52	37254603.64	37254603.77	0.2700	0.1632
Mercury	97304-01-09 22:33 G	37260624.34	37260624.44	37260624.54	0.2647	0.1064
Mercury	97317-01-11 16:19 G	37265375.07	37265375.18	37265375.29	0.2642	0.0350
Mercury	97320-07-14 00:43 G	37266654.39	37266654.53	37266654.67	0.2695	0.1305
Mercury	97330-01-14 09:35 G	37270125.83	37270125.90	37270125.98	0.2638	0.1882
Mercury	97333-07-17 10:33 G	37271405.86	37271405.94	37271406.02	0.2701	0.2328
Mercury	97337-01-07 09:50 G	37272675.86	37272675.91	37272675.96	0.2648	0.2273
Mercury	97350-01-10 03:35 G	37277426.54	37277426.65	37277426.75	0.2646	0.0878
Mercury	97363-01-12 21:07 G	37282177.28	37282177.38	37282177.48	0.2642	0.0768
Mercury	97366-07-15 08:09 G	37283456.68	37283456.84	37283456.99	0.2696	0.0753
Mercury	97376-01-15 14:24 G	37286928.03	37286928.10	37286928.16	0.2636	0.2111
Mercury	97383-01-08 14:38 G	37289478.05	37289478.11	37289478.18	0.2648	0.2049
Venus	97392-03-19 10:19 G	37292835.77	37292835.93	37292836.09	0.2629	0.0105
Mercury	97396-01-11 08:24 G	37294228.74	37294228.85	37294228.96	0.2645	0.0446
Mercury	97409-01-14 01:55 G	37298979.48	37298979.58	37298979.68	0.2641	0.0939
Mercury	97412-07-16 15:07 G	37300258.97	37300259.13	37300259.29	0.2698	0.0166
Mercury	97422-01-16 18:57 G	37303730.26	37303730.29	37303730.33	0.2634	0.2489
Mercury	97429-01-09 19:26 G	37306280.23	37306280.31	37306280.39	0.2648	0.1702
Mercury	97442-01-12 13:11 G	37311030.94	37311031.05	37311031.16	0.2644	0.0219
Mercury	97455-01-15 06:28 G	37315781.68	37315781.77	37315781.87	0.2640	0.1363

Mercury	97458-07-17 22:04 G	37317061.27	37317061.42	37317061.58	0.2699	0.0633
Mercury	97475-01-11 00:14 G	37323082.42	37323082.51	37323082.61	0.2647	0.1408
Mercury	97488-01-13 18:00 G	37327833.14	37327833.25	37327833.36	0.2644	0.0148
Mercury	97491-07-15 19:40 G	37329112.24	37329112.32	37329112.40	0.2695	0.2311
Venus	97497-09-20 04:33 G	37331370.65	37331370.69	37331370.73	0.2700	0.2601
Mercury	97501-01-16 11:16 G	37332583.89	37332583.97	37332584.06	0.2638	0.1550
Mercury	97504-07-19 05:02 G	37333863.58	37333863.71	37333863.84	0.2700	0.1540
Venus	97505-09-18 16:04 G	37334290.03	37334290.17	37334290.30	0.2698	0.1515
Mercury	97508-01-10 11:31 G	37335133.96	37335133.98	37335134.00	0.2648	0.2564
Mercury	97521-01-12 05:16 G	37339884.62	37339884.72	37339884.82	0.2646	0.1116
Mercury	97534-01-14 22:48 G	37344635.34	37344635.45	37344635.56	0.2644	0.0411
Mercury	97537-07-17 02:38 G	37345914.49	37345914.61	37345914.74	0.2697	0.1566
Mercury	97547-01-17 16:04 G	37349386.10	37349386.17	37349386.25	0.2636	0.1913
Mercury	97550-07-20 12:14 G	37350665.91	37350666.01	37350666.11	0.2700	0.2053
Mercury	97554-01-10 16:19 G	37351936.14	37351936.18	37351936.23	0.2647	0.2369
Mercury	97567-01-13 10:04 G	37356686.82	37356686.92	37356687.02	0.2646	0.0726
Mercury	97580-01-16 03:35 G	37361437.54	37361437.65	37361437.75	0.2642	0.0704
Mercury	97583-07-18 09:35 G	37362716.75	37362716.90	37362717.05	0.2697	0.0868
Mercury	97593-01-17 20:52 G	37366188.31	37366188.37	37366188.43	0.2635	0.2166
Mercury	97600-01-11 21:07 G	37368738.31	37368738.38	37368738.46	0.2647	0.1949
Mercury	97613-01-13 14:52 G	37373489.02	37373489.12	37373489.23	0.2646	0.0532
Mercury	97626-01-16 08:24 G	37378239.75	37378239.85	37378239.95	0.2640	0.1066
Mercury	97629-07-18 16:33 G	37379519.03	37379519.19	37379519.35	0.2697	0.0242
Venus	97635-03-22 00:00 G	37381591.35	37381591.50	37381591.65	0.2627	0.1026
Mercury	97639-01-19 01:40 G	37382990.53	37382990.57	37382990.60	0.2635	0.2473
Mercury	97646-01-12 02:09 G	37385540.51	37385540.59	37385540.67	0.2648	0.1731
Mercury	97659-01-14 19:40 G	37390291.21	37390291.32	37390291.43	0.2645	0.0114
Mercury	97672-01-17 13:11 G	37395041.96	37395042.05	37395042.15	0.2639	0.1269
Mercury	97675-07-19 23:45 G	37396321.34	37396321.49	37396321.65	0.2698	0.0606
Mercury	97692-01-13 06:57 G	37402342.70	37402342.79	37402342.88	0.2648	0.1329

Mercury	97705-01-16 00:28 G	37407093.42	37407093.52	37407093.63	0.2644	0.0118
Mercury	97708-07-17 21:07 G	37408372.31	37408372.38	37408372.45	0.2695	0.2390
Mercury	97718-01-18 18:00 G	37411844.17	37411844.25	37411844.33	0.2638	0.1685
Mercury	97721-07-21 07:11 G	37413123.66	37413123.80	37413123.94	0.2699	0.1172
Mercury	97725-01-11 18:14 G	37414394.24	37414394.26	37414394.28	0.2647	0.2585
Mercury	97738-01-14 11:45 G	37419144.89	37419144.99	37419145.09	0.2648	0.1102
Venus	97740-09-21 20:52 G	37420126.27	37420126.37	37420126.46	0.2706	0.2096
Venus	97748-09-19 15:07 G	37423046.00	37423046.13	37423046.26	0.2711	0.1339
Mercury	97751-01-17 05:31 G	37423895.62	37423895.73	37423895.83	0.2642	0.0509
Mercury	97754-07-19 04:04 G	37425174.56	37425174.67	37425174.78	0.2695	0.1923
Mercury	97764-01-19 22:48 G	37428646.37	37428646.45	37428646.52	0.2638	0.1855
Mercury	97767-07-22 14:09 G	37429925.99	37429926.09	37429926.19	0.2700	0.2098
Mercury	97771-01-12 23:02 G	37431196.41	37431196.46	37431196.51	0.2648	0.2252
Mercury	97784-01-15 16:33 G	37435947.09	37435947.19	37435947.30	0.2647	0.0753
Mercury	97797-01-17 10:19 G	37440697.82	37440697.93	37440698.03	0.2641	0.0725
Mercury	97800-07-20 11:16 G	37441976.83	37441976.97	37441977.12	0.2696	0.1009
Mercury	97810-01-21 03:21 G	37445448.58	37445448.64	37445448.69	0.2636	0.2254
Mercury	97813-07-23 21:07 G	37446728.34	37446728.38	37446728.43	0.2701	0.2556
Mercury	97817-01-14 03:50 G	37447998.59	37447998.66	37447998.73	0.2649	0.2015
Mercury	97830-01-16 21:35 G	37452749.29	37452749.40	37452749.50	0.2645	0.0443
Mercury	97843-01-19 14:52 G	37457500.03	37457500.12	37457500.22	0.2641	0.1085
Mercury	97846-07-21 18:43 G	37458779.12	37458779.28	37458779.43	0.2698	0.0403
Mercury	97856-01-22 07:55 G	37462250.80	37462250.83	37462250.87	0.2634	0.2439
Mercury	97863-01-15 08:38 G	37464800.77	37464800.86	37464800.94	0.2648	0.1630
Mercury	97876-01-18 02:24 G	37469551.49	37469551.60	37469551.71	0.2645	0.0170
Venus	97878-03-24 11:31 G	37470347.83	37470347.98	37470348.13	0.2632	0.0602
Mercury	97889-01-19 19:40 G	37474302.23	37474302.32	37474302.41	0.2640	0.1337
Mercury	97892-07-22 01:40 G	37475581.41	37475581.57	37475581.72	0.2699	0.0348
Mercury	97909-01-16 13:26 G	37481602.97	37481603.06	37481603.15	0.2648	0.1418
Mercury	97922-01-19 07:11 G	37486353.69	37486353.80	37486353.91	0.2644	0.0222

Mercury	97935-01-22 00:28 G	37491104.43	37491104.52	37491104.60	0.2638	0.1619
Mercury	97938-07-24 08:24 G	37492383.71	37492383.85	37492384.00	0.2699	0.1035
Mercury	97942-01-15 00:43 G	37493654.52	37493654.53	37493654.54	0.2649	0.2630
Mercury	97955-01-17 18:28 G	37498405.17	37498405.27	37498405.37	0.2647	0.0992
Mercury	97968-01-20 12:00 G	37503155.89	37503156.00	37503156.10	0.2644	0.0419
Mercury	97971-07-22 06:00 G	37504434.64	37504434.75	37504434.86	0.2696	0.1897
Mercury	97981-01-22 05:02 G	37507906.64	37507906.71	37507906.78	0.2636	0.1974
Venus	97983-09-25 08:38 G	37508882.81	37508882.86	37508882.91	0.2706	0.2542
Mercury	97984-07-24 15:35 G	37509186.03	37509186.15	37509186.27	0.2699	0.1697
Mercury	97988-01-16 05:31 G	37510456.67	37510456.73	37510456.78	0.2648	0.2234
Venus	97991-09-22 23:02 G	37511802.30	37511802.46	37511802.62	0.2701	0.0574

99TH MILLENNIUM CE

This is a list of transits visible from Moon in the 99th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	98001-01-17 23:16 G	37515207.37	37515207.47	37515207.57	0.2647	0.0784		
Mercury	98014-01-20 16:33 G	37519958.09	37519958.19	37519958.30	0.2643	0.0830		
Mercury	98017-07-22 12:57 G	37521236.91	37521237.04	37521237.17	0.2697	0.1445		
Mercury	98027-01-23 09:50 G	37524708.85	37524708.91	37524708.97	0.2636	0.2181		
Mercury	98030-07-25 23:02 G	37525988.41	37525988.46	37525988.50	0.2700	0.2557		
Mercury	98034-01-16 10:19 G	37527258.86	37527258.93	37527259.00	0.2648	0.1990		
Mercury	98047-01-19 04:04 G	37532009.56	37532009.67	37532009.77	0.2647	0.0385		
Mercury	98060-01-21 21:21 G	37536760.29	37536760.39	37536760.49	0.2641	0.1017		

Mercury	98063-07-23 19:55 G	37538039.17	37538039.33	37538039.49	0.2697	0.0507
Mercury	98073-01-23 14:38 G	37541511.09	37541511.11	37541511.13	0.2636	0.2580
Mercury	98080-01-17 15:21 G	37544061.05	37544061.14	37544061.22	0.2648	0.1646
Mercury	98093-01-19 08:52 G	37548811.76	37548811.87	37548811.97	0.2646	0.0189
Mercury	98106-01-23 02:09 G	37553562.50	37553562.59	37553562.68	0.2639	0.1430
Mercury	98109-07-25 03:07 G	37554841.47	37554841.63	37554841.79	0.2697	0.0050
Venus	98121-03-26 04:19 G	37559103.52	37559103.68	37559103.85	0.2623	0.0736
Mercury	98126-01-18 20:09 G	37560863.24	37560863.34	37560863.43	0.2648	0.1324
Mercury	98139-01-21 13:40 G	37565613.96	37565614.07	37565614.17	0.2645	0.0212
Mercury	98152-01-24 06:57 G	37570364.71	37570364.79	37570364.88	0.2639	0.1629
Mercury	98155-07-26 10:19 G	37571643.78	37571643.93	37571644.08	0.2698	0.0917
Mercury	98159-01-17 07:11 G	37572914.77	37572914.80	37572914.83	0.2648	0.2519
Mercury	98172-01-20 00:43 G	37577665.44	37577665.53	37577665.63	0.2648	0.1075
Mercury	98185-01-21 18:28 G	37582416.16	37582416.27	37582416.37	0.2643	0.0505
Mercury	98188-07-23 07:11 G	37583694.72	37583694.80	37583694.88	0.2694	0.2287
Mercury	98198-01-24 11:45 G	37587166.92	37587166.99	37587167.06	0.2639	0.2004
Mercury	98201-07-27 17:31 G	37588446.10	37588446.23	37588446.36	0.2699	0.1503
Mercury	98205-01-18 12:14 G	37589716.96	37589717.01	37589717.06	0.2649	0.2310
Mercury	98218-01-21 05:31 G	37594467.63	37594467.73	37594467.84	0.2648	0.0703
Venus	98226-09-27 00:14 G	37597638.41	37597638.51	37597638.61	0.2700	0.2090
Mercury	98231-01-23 23:16 G	37599218.36	37599218.47	37599218.57	0.2643	0.0773
Mercury	98234-07-25 14:24 G	37600496.97	37600497.10	37600497.23	0.2695	0.1525
Venus	98234-09-24 15:21 G	37600558.04	37600558.14	37600558.24	0.2706	0.2052
Mercury	98244-01-26 16:19 G	37603969.13	37603969.18	37603969.24	0.2637	0.2242
Mercury	98247-07-29 00:14 G	37605248.43	37605248.51	37605248.60	0.2700	0.2278
Mercury	98251-01-19 16:48 G	37606519.13	37606519.20	37606519.28	0.2649	0.1888
Mercury	98264-01-22 10:33 G	37611269.83	37611269.94	37611270.04	0.2647	0.0477
Mercury	98277-01-24 04:04 G	37616020.57	37616020.67	37616020.76	0.2643	0.1135
Mercury	98280-07-25 21:35 G	37617299.25	37617299.40	37617299.55	0.2697	0.0903
Mercury	98290-01-26 21:07 G	37620771.35	37620771.38	37620771.41	0.2635	0.2528

Mercury	98297-01-19 21:35 G	37623321.32	37623321.40	37623321.48	0.2649	0.1708
Mercury	98310-01-23 15:21 G	37628072.03	37628072.14	37628072.25	0.2646	0.0046
Mercury	98323-01-26 08:38 G	37632822.77	37632822.86	37632822.96	0.2642	0.1353
Mercury	98326-07-28 04:48 G	37634101.54	37634101.70	37634101.85	0.2698	0.0072
Mercury	98343-01-22 02:24 G	37640123.51	37640123.60	37640123.70	0.2648	0.1296
Mercury	98356-01-24 20:09 G	37644874.23	37644874.34	37644874.45	0.2646	0.0147
Venus	98364-03-28 09:07 G	37647859.73	37647859.88	37647860.03	0.2634	0.0230
Mercury	98369-01-26 13:26 G	37649624.98	37649625.06	37649625.14	0.2640	0.1750
Mercury	98372-07-28 11:45 G	37650903.83	37650903.99	37650904.14	0.2698	0.0473
Mercury	98376-01-20 13:40 G	37652175.05	37652175.07	37652175.10	0.2649	0.2550
Mercury	98389-01-22 07:26 G	37656925.71	37656925.81	37656925.90	0.2648	0.1053
Mercury	98402-01-25 00:57 G	37661676.43	37661676.54	37661676.64	0.2645	0.0563
Mercury	98405-07-26 08:52 G	37662954.83	37662954.87	37662954.92	0.2695	0.2579
Mercury	98415-01-27 18:14 G	37666427.19	37666427.26	37666427.33	0.2638	0.1928
Mercury	98418-07-29 18:43 G	37667706.15	37667706.28	37667706.41	0.2698	0.1408
Mercury	98422-01-20 18:28 G	37668977.22	37668977.27	37668977.33	0.2648	0.2245
Mercury	98435-01-23 12:14 G	37673727.91	37673728.01	37673728.11	0.2648	0.0693
Mercury	98448-01-26 05:45 G	37678478.64	37678478.74	37678478.84	0.2644	0.0769
Mercury	98451-07-27 15:50 G	37679757.04	37679757.16	37679757.28	0.2696	0.1725
Mercury	98461-01-27 23:02 G	37683229.41	37683229.46	37683229.51	0.2637	0.2347
Mercury	98464-07-30 02:09 G	37684508.48	37684508.59	37684508.70	0.2699	0.1946
Mercury	98468-01-21 23:16 G	37685779.40	37685779.47	37685779.54	0.2648	0.1970
Venus	98477-09-26 03:50 G	37689314.50	37689314.66	37689314.81	0.2706	0.0228
Mercury	98481-01-23 17:02 G	37690530.10	37690530.21	37690530.32	0.2648	0.0387
Mercury	98494-01-26 10:33 G	37695280.84	37695280.94	37695281.04	0.2642	0.1137
Mercury	98497-07-27 23:02 G	37696559.31	37696559.46	37696559.60	0.2696	0.1131
Mercury	98507-01-30 03:35 G	37700031.63	37700031.65	37700031.68	0.2637	0.2534
Mercury	98514-01-23 04:19 G	37702581.59	37702581.68	37702581.76	0.2649	0.1577
Mercury	98527-01-25 21:50 G	37707332.30	37707332.41	37707332.52	0.2647	0.0117
Mercury	98540-01-28 15:21 G	37712083.05	37712083.14	37712083.23	0.2640	0.1429

Mercury	98543-07-30 06:00 G	37713361.60	37713361.75	37713361.91	0.2697	0.0355
Mercury	98560-01-24 09:07 G	37719383.79	37719383.88	37719383.97	0.2649	0.1362
Mercury	98573-01-26 02:38 G	37724134.50	37724134.61	37724134.72	0.2646	0.0260
Mercury	98586-01-28 20:09 G	37728885.25	37728885.34	37728885.42	0.2640	0.1708
Mercury	98589-07-30 13:26 G	37730163.91	37730164.06	37730164.22	0.2698	0.0449
Mercury	98593-01-21 20:24 G	37731435.33	37731435.35	37731435.37	0.2648	0.2580
Mercury	98606-01-25 13:55 G	37736185.98	37736186.08	37736186.18	0.2649	0.0934
Venus	98607-03-31 10:48 G	37736615.78	37736615.95	37736616.12	0.2622	0.0371
Mercury	98619-01-28 07:26 G	37740936.71	37740936.81	37740936.92	0.2644	0.0495
Mercury	98622-07-29 10:19 G	37742214.90	37742214.93	37742214.96	0.2694	0.2636
Mercury	98632-01-31 00:43 G	37745687.47	37745687.53	37745687.60	0.2639	0.2048
Mercury	98635-08-01 20:52 G	37746966.22	37746966.37	37746966.51	0.2699	0.1071
Mercury	98639-01-24 01:11 G	37748237.49	37748237.55	37748237.61	0.2649	0.2179
Mercury	98652-01-26 18:43 G	37752988.18	37752988.28	37752988.38	0.2648	0.0746
Mercury	98665-01-28 12:14 G	37757738.91	37757739.01	37757739.12	0.2643	0.0919
Mercury	98668-07-29 17:31 G	37759017.14	37759017.23	37759017.33	0.2695	0.2109
Mercury	98678-01-31 05:31 G	37762489.67	37762489.73	37762489.78	0.2638	0.2265
Mercury	98681-08-02 03:50 G	37763768.55	37763768.66	37763768.77	0.2699	0.1956
Mercury	98685-01-24 06:00 G	37765039.68	37765039.75	37765039.82	0.2650	0.1924
Mercury	98698-01-26 23:31 G	37769790.38	37769790.48	37769790.59	0.2647	0.0344
Mercury	98711-01-30 17:02 G	37774541.11	37774541.21	37774541.31	0.2643	0.1090
Venus	98712-10-01 06:14 G	37775150.65	37775150.76	37775150.87	0.2698	0.1961
Mercury	98714-08-01 00:43 G	37775819.39	37775819.53	37775819.68	0.2696	0.1156
Venus	98720-09-28 18:57 G	37778070.17	37778070.29	37778070.40	0.2703	0.1844
Mercury	98727-08-04 10:48 G	37780570.89	37780570.95	37780571.02	0.2699	0.2467
Mercury	98731-01-26 10:48 G	37781841.87	37781841.95	37781842.04	0.2650	0.1599
Mercury	98744-01-29 04:33 G	37786592.58	37786592.69	37786592.80	0.2646	0.0087
Mercury	98757-01-30 21:50 G	37791343.32	37791343.41	37791343.50	0.2642	0.1502
Mercury	98760-08-01 08:09 G	37792621.68	37792621.84	37792621.99	0.2697	0.0613
Mercury	98777-01-26 15:35 G	37798644.06	37798644.15	37798644.25	0.2649	0.1277

Mercury	98790-01-29 09:21 G	37803394.78	37803394.89	37803394.99	0.2646	0.0278
Mercury	98803-02-01 02:38 G	37808145.52	37808145.61	37808145.69	0.2640	0.1707
Mercury	98806-08-02 14:52 G	37809423.97	37809424.12	37809424.28	0.2698	0.0249
Mercury	98810-01-25 02:52 G	37810695.58	37810695.62	37810695.66	0.2650	0.2451
Mercury	98823-01-27 20:38 G	37815446.26	37815446.36	37815446.46	0.2648	0.1007
Mercury	98836-01-30 13:55 G	37820196.98	37820197.08	37820197.19	0.2645	0.0579
Mercury	98849-02-01 07:11 G	37824947.74	37824947.80	37824947.87	0.2638	0.2053
Venus	98850-04-01 06:57 G	37825371.63	37825371.79	37825371.94	0.2633	0.0374
Mercury	98852-08-02 22:04 G	37826226.27	37826226.42	37826226.57	0.2698	0.0869
Mercury	98856-01-26 07:40 G	37827497.77	37827497.82	37827497.88	0.2650	0.2265
Mercury	98869-01-28 01:26 G	37832248.45	37832248.56	37832248.66	0.2648	0.0594
Mercury	98882-01-30 18:43 G	37836999.18	37836999.28	37836999.39	0.2644	0.0840
Mercury	98885-07-31 19:11 G	37838277.20	37838277.30	37838277.39	0.2696	0.2141
Mercury	98895-02-02 12:00 G	37841749.95	37841750.00	37841750.05	0.2637	0.2338
Mercury	98898-08-04 05:31 G	37843028.61	37843028.73	37843028.85	0.2698	0.1662
Mercury	98902-01-27 12:28 G	37844299.95	37844300.02	37844300.10	0.2649	0.1833
Mercury	98915-01-30 06:14 G	37849050.65	37849050.76	37849050.87	0.2648	0.0399
Mercury	98928-02-01 23:31 G	37853801.39	37853801.48	37853801.58	0.2642	0.1218
Mercury	98931-08-03 02:09 G	37855079.47	37855079.59	37855079.72	0.2696	0.1594
Mercury	98941-02-03 16:48 G	37858552.19	37858552.20	37858552.21	0.2637	0.2616
Mercury	98944-08-05 12:57 G	37859830.98	37859831.04	37859831.10	0.2698	0.2485
Mercury	98948-01-28 17:31 G	37861102.14	37861102.23	37861102.31	0.2649	0.1604
Mercury	98961-01-30 11:02 G	37865852.85	37865852.96	37865853.06	0.2647	0.0092
Venus	98963-10-01 06:28 G	37866826.62	37866826.77	37866826.92	0.2709	0.0582
Mercury	98974-02-02 04:19 G	37870603.59	37870603.68	37870603.77	0.2640	0.1420
Mercury	98977-08-03 09:21 G	37871881.74	37871881.89	37871882.05	0.2696	0.0656
Mercury	98994-01-28 22:19 G	37877904.34	37877904.43	37877904.53	0.2650	0.1214

100TH MILLENNIUM CE

This is a list of transits visible from Moon in the 100th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	99007-02-01 15:50	G	37882655.05	37882655.16	37882655.27	0.2646	0.0230	
Mercury	99020-02-04 09:07	G	37887405.81	37887405.88	37887405.96	0.2640	0.1846	
Mercury	99023-08-05 17:02	G	37888684.05	37888684.21	37888684.36	0.2697	0.0120	
Mercury	99027-01-28 09:35	G	37889955.86	37889955.90	37889955.93	0.2649	0.2491	
Mercury	99040-01-31 03:07	G	37894706.53	37894706.63	37894706.73	0.2650	0.0958	
Mercury	99053-02-01 20:38	G	37899457.25	37899457.36	37899457.46	0.2644	0.0631	
Mercury	99066-02-04 13:55	G	37904208.01	37904208.08	37904208.15	0.2639	0.2013	
Mercury	99069-08-06 00:14	G	37905486.36	37905486.51	37905486.66	0.2698	0.0870	
Mercury	99073-01-28 14:23	G	37906758.04	37906758.10	37906758.16	0.2650	0.2127	
Mercury	99086-01-31 07:55	G	37911508.72	37911508.83	37911508.93	0.2649	0.0634	
Venus	99093-04-03 15:07	G	37914127.98	37914128.13	37914128.28	0.2623	0.1114	
Mercury	99099-02-03 01:26	G	37916259.46	37916259.56	37916259.66	0.2643	0.0885	
Mercury	99102-08-04 20:38	G	37917537.29	37917537.36	37917537.43	0.2695	0.2408	
Mercury	99112-02-06 18:28	G	37921010.23	37921010.27	37921010.31	0.2638	0.2409	
Mercury	99115-08-08 07:11	G	37922288.67	37922288.80	37922288.94	0.2698	0.1399	
Mercury	99119-01-30 19:11	G	37923560.23	37923560.30	37923560.37	0.2651	0.1901	
Mercury	99132-02-02 12:43	G	37928310.92	37928311.03	37928311.14	0.2647	0.0289	
Mercury	99145-02-04 06:14	G	37933061.66	37933061.76	37933061.85	0.2643	0.1218	
Mercury	99148-08-05 04:04	G	37934339.54	37934339.67	37934339.79	0.2696	0.1654	
Mercury	99158-02-06 23:02	G	37937812.45	37937812.46	37937812.48	0.2636	0.2611	
Mercury	99161-08-08 14:09	G	37939091.01	37939091.09	37939091.18	0.2698	0.2261	
Mercury	99165-01-30 23:59	G	37940362.41	37940362.50	37940362.59	0.2650	0.1491	

Mercury	99178-02-02 17:45 G	37945113.13	37945113.24	37945113.34	0.2646	0.0103
Mercury	99191-02-05 11:02 G	37949863.87	37949863.96	37949864.04	0.2642	0.1514
Mercury	99194-08-06 11:16 G	37951141.82	37951141.97	37951142.12	0.2697	0.0984
Venus	99198-10-05 12:57 G	37952662.96	37952663.04	37952663.13	0.2698	0.2278
Venus	99206-10-03 00:28 G	37955582.37	37955582.52	37955582.67	0.2700	0.1159
Mercury	99211-02-01 04:47 G	37957164.61	37957164.70	37957164.79	0.2650	0.1290
Mercury	99224-02-03 22:33 G	37961915.33	37961915.44	37961915.54	0.2646	0.0393
Mercury	99237-02-05 15:35 G	37966666.07	37966666.15	37966666.23	0.2640	0.1766
Mercury	99240-08-06 18:14 G	37967944.11	37967944.26	37967944.42	0.2697	0.0154
Mercury	99244-01-30 16:04 G	37969216.14	37969216.17	37969216.21	0.2651	0.2494
Mercury	99257-02-01 09:35 G	37973966.80	37973966.90	37973967.01	0.2649	0.0863
Mercury	99270-02-04 03:07 G	37978717.53	37978717.63	37978717.74	0.2645	0.0571
Mercury	99283-02-06 20:23 G	37983468.28	37983468.35	37983468.41	0.2638	0.2143
Mercury	99286-08-08 01:40 G	37984746.41	37984746.57	37984746.72	0.2697	0.0442
Mercury	99290-01-30 20:52 G	37986018.31	37986018.37	37986018.43	0.2650	0.2122
Mercury	99303-02-03 14:38 G	37990769.01	37990769.11	37990769.21	0.2648	0.0625
Mercury	99316-02-06 07:55 G	37995519.73	37995519.83	37995519.93	0.2644	0.0987
Mercury	99329-02-08 00:57 G	38000270.50	38000270.54	38000270.59	0.2637	0.2331
Mercury	99332-08-09 08:52 G	38001548.73	38001548.87	38001549.00	0.2697	0.1391
Mercury	99336-02-02 01:40 G	38002820.50	38002820.57	38002820.65	0.2650	0.1847
Venus	99336-04-05 05:45 G	38002883.58	38002883.74	38002883.89	0.2630	0.0458
Mercury	99349-02-03 19:26 G	38007571.20	38007571.31	38007571.42	0.2648	0.0245
Mercury	99362-02-06 12:43 G	38012321.93	38012322.03	38012322.13	0.2642	0.1178
Mercury	99365-08-07 05:31 G	38013599.61	38013599.73	38013599.84	0.2696	0.1821
Mercury	99378-08-10 16:19 G	38018351.07	38018351.18	38018351.29	0.2697	0.1939
Mercury	99382-02-02 06:43 G	38019622.69	38019622.78	38019622.86	0.2650	0.1529
Mercury	99395-02-05 00:14 G	38024373.40	38024373.51	38024373.61	0.2648	0.0100
Mercury	99408-02-08 17:31 G	38029124.14	38029124.23	38029124.31	0.2640	0.1572
Mercury	99411-08-09 12:43 G	38030401.89	38030402.03	38030402.17	0.2696	0.1232
Mercury	99428-02-04 11:31 G	38036424.88	38036424.98	38036425.08	0.2650	0.1155

Mercury	99441-02-06 04:47 G	38041175.60	38041175.70	38041175.81	0.2646	0.0351
Venus	99441-10-07 11:31 G	38041418.91	38041418.98	38041419.04	0.2710	0.2438
Venus	99449-10-05 07:26 G	38044338.68	38044338.81	38044338.95	0.2711	0.1113
Mercury	99454-02-08 22:04 G	38045926.35	38045926.42	38045926.50	0.2640	0.1811
Mercury	99457-08-09 20:09 G	38047204.18	38047204.34	38047204.49	0.2696	0.0384
Mercury	99461-02-01 22:47 G	38048476.40	38048476.45	38048476.49	0.2650	0.2383
Mercury	99474-02-04 16:19 G	38053227.08	38053227.18	38053227.28	0.2650	0.0933
Mercury	99487-02-07 09:50 G	38057977.80	38057977.91	38057978.01	0.2644	0.0689
Mercury	99500-02-10 02:52 G	38062728.56	38062728.62	38062728.68	0.2639	0.2146
Mercury	99503-08-12 03:21 G	38064006.48	38064006.64	38064006.79	0.2697	0.0375
Mercury	99507-02-04 03:35 G	38065278.59	38065278.65	38065278.71	0.2651	0.2166
Mercury	99520-02-06 21:07 G	38070029.27	38070029.38	38070029.48	0.2649	0.0526
Mercury	99533-02-08 14:38 G	38074780.00	38074780.11	38074780.21	0.2643	0.0920
Mercury	99546-02-11 07:40 G	38079530.78	38079530.82	38079530.86	0.2638	0.2427
Mercury	99549-08-12 10:19 G	38080808.79	38080808.93	38080809.08	0.2697	0.1040
Mercury	99553-02-04 08:23 G	38082080.77	38082080.85	38082080.93	0.2651	0.1746
Mercury	99566-02-07 01:55 G	38086831.47	38086831.58	38086831.69	0.2648	0.0314
Mercury	99579-02-09 19:11 G	38091582.21	38091582.30	38091582.40	0.2643	0.1325
Venus	99579-04-08 17:31 G	38091640.08	38091640.23	38091640.38	0.2627	0.1162
Mercury	99582-08-10 07:11 G	38092859.71	38092859.80	38092859.89	0.2695	0.2208
Mercury	99595-08-13 17:31 G	38097611.12	38097611.23	38097611.34	0.2697	0.1882
Mercury	99599-02-05 13:11 G	38098882.96	38098883.05	38098883.14	0.2651	0.1535
Mercury	99612-02-08 06:43 G	38103633.67	38103633.78	38103633.89	0.2647	0.0122
Mercury	99625-02-09 23:59 G	38108384.41	38108384.50	38108384.59	0.2642	0.1506
Mercury	99628-08-10 14:23 G	38109661.96	38109662.10	38109662.24	0.2696	0.1233
Mercury	99641-08-14 00:43 G	38114413.47	38114413.53	38114413.60	0.2696	0.2469
Mercury	99645-02-05 17:59 G	38115685.15	38115685.25	38115685.35	0.2650	0.1151
Mercury	99658-02-08 11:31 G	38120435.88	38120435.98	38120436.09	0.2646	0.0340
Mercury	99671-02-11 04:47 G	38125186.62	38125186.70	38125186.77	0.2640	0.1919
Mercury	99674-08-11 21:35 G	38126464.24	38126464.40	38126464.55	0.2696	0.0742

Mercury	99678-02-04 05:16 G	38127736.68	38127736.72	38127736.76	0.2651	0.2432
Mercury	99691-02-06 22:47 G	38132487.35	38132487.45	38132487.55	0.2649	0.0855
Venus	99692-10-06 08:52 G	38133094.71	38133094.87	38133095.03	0.2699	0.0526
Mercury	99704-02-10 16:19 G	38137238.08	38137238.18	38137238.28	0.2646	0.0722
Mercury	99717-02-12 09:21 G	38141988.83	38141988.89	38141988.96	0.2638	0.2103
Mercury	99720-08-13 04:47 G	38143266.54	38143266.70	38143266.85	0.2696	0.0223
Mercury	99724-02-06 10:04 G	38144538.85	38144538.92	38144538.99	0.2651	0.2064
Mercury	99737-02-08 03:35 G	38149289.55	38149289.65	38149289.76	0.2649	0.0564
Mercury	99750-02-10 21:07 G	38154040.28	38154040.38	38154040.48	0.2645	0.0966
Mercury	99763-02-13 14:09 G	38158791.06	38158791.09	38158791.12	0.2637	0.2489
Mercury	99766-08-14 11:59 G	38160068.85	38160069.00	38160069.16	0.2696	0.0849
Mercury	99770-02-06 14:52 G	38161341.05	38161341.12	38161341.20	0.2651	0.1828
Mercury	99783-02-09 08:38 G	38166091.75	38166091.86	38166091.96	0.2648	0.0212
Mercury	99796-02-12 01:55 G	38170842.48	38170842.58	38170842.67	0.2642	0.1282
Mercury	99799-08-12 08:23 G	38172119.77	38172119.85	38172119.93	0.2695	0.2302
Mercury	99812-08-15 19:26 G	38176871.19	38176871.31	38176871.44	0.2696	0.1667
Mercury	99816-02-08 19:55 G	38178143.23	38178143.33	38178143.42	0.2651	0.1400
Venus	99822-04-10 05:45 G	38180395.58	38180395.74	38180395.91	0.2627	0.0078
Mercury	99829-02-10 13:11 G	38182893.95	38182894.05	38182894.16	0.2648	0.0117
Mercury	99842-02-13 06:28 G	38187644.69	38187644.77	38187644.86	0.2640	0.1628
Mercury	99845-08-13 15:50 G	38188922.04	38188922.16	38188922.29	0.2695	0.1652
Mercury	99849-02-06 06:57 G	38190194.79	38190194.79	38190194.79	0.2651	0.2649
Mercury	99858-08-17 02:38 G	38193673.54	38193673.61	38193673.68	0.2696	0.2417
Mercury	99862-02-09 00:43 G	38194945.43	38194945.53	38194945.62	0.2650	0.1184
Mercury	99875-02-11 17:59 G	38199696.15	38199696.25	38199696.36	0.2647	0.0467
Mercury	99888-02-14 11:16 G	38204446.90	38204446.97	38204447.05	0.2640	0.1852
Mercury	99891-08-14 23:16 G	38205724.32	38205724.47	38205724.63	0.2695	0.0685
Mercury	99895-02-07 11:45 G	38206996.95	38206996.99	38206997.04	0.2651	0.2416
Mercury	99908-02-11 05:31 G	38211747.63	38211747.73	38211747.83	0.2650	0.0767
Mercury	99921-02-12 23:02 G	38216498.35	38216498.46	38216498.56	0.2644	0.0666

Venus	99927-10-12 13:26 G	38218930.95	38218931.06	38218931.17	0.2707	0.1860
Mercury	99934-02-15 16:04 G	38221249.11	38221249.17	38221249.22	0.2639	0.2247
Venus	99935-10-10 08:09 G	38221850.71	38221850.84	38221850.97	0.2711	0.1151
Mercury	99937-08-16 06:43 G	38222526.62	38222526.78	38222526.94	0.2696	0.0152
Mercury	99941-02-08 16:47 G	38223799.13	38223799.20	38223799.26	0.2651	0.2043
Mercury	99954-02-11 10:19 G	38228549.82	38228549.93	38228550.03	0.2650	0.0553
Mercury	99967-02-14 03:35 G	38233300.56	38233300.65	38233300.75	0.2643	0.1084
Mercury	99980-02-16 20:38 G	38238051.32	38238051.36	38238051.40	0.2638	0.2423
Mercury	99983-08-17 13:40 G	38239328.92	38239329.07	38239329.22	0.2696	0.0828
Mercury	99987-02-09 21:35 G	38240601.32	38240601.40	38240601.48	0.2652	0.1723
Mercury	100000-02-12 15:07 G	38245352.02	38245352.13	38245352.24	0.2648	0.0171

101ST MILLENNIUM CE

This is a list of transits visible from Moon in the 101st millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	100013-02-14 08:23 G		38250102.76	38250102.85	38250102.95	0.2643	0.1282	
Mercury	100016-08-14 10:19 G		38251379.87	38251379.93	38251380.00	0.2695	0.2466	
Mercury	100029-08-17 20:52 G		38256131.23	38256131.37	38256131.51	0.2696	0.1325	
Mercury	100033-02-10 02:23 G		38257403.51	38257403.60	38257403.69	0.2652	0.1456	
Mercury	100046-02-12 19:55 G		38262154.22	38262154.33	38262154.44	0.2647	0.0142	
Mercury	100059-02-15 13:11 G		38266904.96	38266905.05	38266905.13	0.2642	0.1666	
Mercury	100062-08-15 17:45 G		38268182.12	38268182.24	38268182.36	0.2695	0.1752	
Venus	100065-04-11 17:31 G		38269152.08	38269152.23	38269152.38	0.2630	0.0863	

Venus	100073-04-09 07:40 G	38272071.78	38272071.82	38272071.86	0.2624	0.2541
Mercury	100075-08-19 04:04 G	38272933.58	38272933.67	38272933.75	0.2695	0.2261
Mercury	100079-02-11 07:11 G	38274205.70	38274205.80	38274205.90	0.2651	0.1077
Mercury	100092-02-14 00:43 G	38278956.42	38278956.53	38278956.64	0.2646	0.0418
Mercury	100105-02-16 17:45 G	38283707.17	38283707.24	38283707.31	0.2640	0.1903
Mercury	100108-08-17 00:43 G	38284984.38	38284984.53	38284984.68	0.2696	0.1043
Mercury	100112-02-10 18:28 G	38286257.22	38286257.27	38286257.32	0.2652	0.2280
Mercury	100125-02-12 11:59 G	38291007.90	38291008.00	38291008.11	0.2650	0.0842
Mercury	100138-02-15 05:31 G	38295758.62	38295758.73	38295758.83	0.2646	0.0785
Mercury	100151-02-17 22:33 G	38300509.38	38300509.44	38300509.49	0.2638	0.2194
Mercury	100154-08-18 07:55 G	38301786.67	38301786.83	38301786.99	0.2695	0.0214
Mercury	100158-02-10 23:16 G	38303059.41	38303059.47	38303059.54	0.2652	0.2092
Mercury	100171-02-13 17:02 G	38307810.10	38307810.21	38307810.31	0.2649	0.0409
Venus	100178-10-11 16:47 G	38310607.05	38310607.20	38310607.36	0.2700	0.0474
Mercury	100184-02-16 10:04 G	38312560.82	38312560.92	38312561.02	0.2645	0.1011
Mercury	100197-02-18 03:07 G	38317311.61	38317311.63	38317311.66	0.2637	0.2537
Mercury	100200-08-19 15:21 G	38318588.98	38318589.14	38318589.30	0.2694	0.0423
Mercury	100204-02-13 04:04 G	38319861.59	38319861.67	38319861.76	0.2651	0.1674
Mercury	100217-02-14 21:50 G	38324612.30	38324612.41	38324612.51	0.2648	0.0225
Mercury	100230-02-17 14:52 G	38329363.03	38329363.12	38329363.21	0.2642	0.1411
Mercury	100246-08-20 22:33 G	38335391.31	38335391.44	38335391.58	0.2694	0.1392
Mercury	100250-02-13 09:07 G	38336663.79	38336663.88	38336663.97	0.2651	0.1410
Mercury	100263-02-16 02:23 G	38341414.49	38341414.60	38341414.71	0.2648	0.0218
Mercury	100276-02-18 19:40 G	38346165.23	38346165.32	38346165.40	0.2640	0.1592
Mercury	100279-08-18 18:57 G	38347442.18	38347442.29	38347442.40	0.2694	0.1883
Mercury	100283-02-11 20:09 G	38348715.33	38348715.34	38348715.36	0.2652	0.2627
Mercury	100292-08-21 05:45 G	38352193.63	38352193.74	38352193.85	0.2694	0.1892
Mercury	100296-02-14 13:55 G	38353465.98	38353466.08	38353466.18	0.2651	0.1058
Venus	100308-04-14 07:40 G	38357907.65	38357907.82	38357907.98	0.2624	0.0529
Mercury	100309-02-17 07:11 G	38358216.69	38358216.80	38358216.91	0.2646	0.0430

Mercury	100322-02-20 00:28 G	38362967.45	38362967.52	38362967.59	0.2639	0.2011
Mercury	100325-08-20 02:38 G	38364244.46	38364244.61	38364244.75	0.2694	0.1238
Mercury	100329-02-13 01:11 G	38365517.50	38365517.55	38365517.59	0.2652	0.2351
Mercury	100342-02-15 18:43 G	38370268.18	38370268.28	38370268.38	0.2651	0.0734
Mercury	100355-02-18 11:59 G	38375018.90	38375019.00	38375019.10	0.2644	0.0789
Mercury	100368-02-21 05:02 G	38379769.66	38379769.71	38379769.77	0.2639	0.2204
Mercury	100371-08-21 09:50 G	38381046.75	38381046.91	38381047.07	0.2694	0.0396
Mercury	100375-02-14 05:59 G	38382319.68	38382319.75	38382319.82	0.2652	0.1934
Mercury	100388-02-16 23:31 G	38387070.37	38387070.48	38387070.58	0.2650	0.0475
Mercury	100401-02-18 16:47 G	38391821.10	38391821.20	38391821.30	0.2642	0.1100
Venus	100413-10-15 17:31 G	38396443.12	38396443.23	38396443.34	0.2703	0.1912
Mercury	100414-02-21 09:35 G	38396571.88	38396571.90	38396571.93	0.2638	0.2563
Mercury	100417-08-21 17:02 G	38397849.05	38397849.21	38397849.37	0.2694	0.0331
Mercury	100421-02-14 10:47 G	38399121.87	38399121.95	38399122.03	0.2652	0.1724
Venus	100421-10-13 10:33 G	38399362.80	38399362.94	38399363.08	0.2709	0.0866
Mercury	100434-02-17 04:19 G	38403872.57	38403872.68	38403872.79	0.2648	0.0085
Mercury	100447-02-19 21:35 G	38408623.31	38408623.40	38408623.49	0.2642	0.1364
Mercury	100463-08-22 23:59 G	38414651.35	38414651.50	38414651.65	0.2694	0.1027
Mercury	100467-02-15 15:35 G	38415924.06	38415924.15	38415924.24	0.2652	0.1287
Mercury	100480-02-18 09:07 G	38420674.77	38420674.88	38420674.99	0.2646	0.0146
Mercury	100493-02-20 02:09 G	38425425.51	38425425.59	38425425.67	0.2641	0.1727
Mercury	100496-08-19 21:07 G	38426702.29	38426702.38	38426702.46	0.2694	0.2237
Mercury	100500-02-14 03:07 G	38427975.60	38427975.63	38427975.65	0.2653	0.2558
Mercury	100509-08-24 07:26 G	38431453.69	38431453.81	38431453.92	0.2692	0.1899
Mercury	100513-02-16 20:23 G	38432726.26	38432726.35	38432726.45	0.2651	0.1084
Mercury	100526-02-19 13:55 G	38437476.97	38437477.08	38437477.19	0.2645	0.0581
Mercury	100539-02-22 06:57 G	38442227.71	38442227.79	38442227.86	0.2639	0.1925
Mercury	100542-08-22 04:04 G	38443504.53	38443504.67	38443504.81	0.2694	0.1266
Mercury	100546-02-15 07:55 G	38444777.77	38444777.83	38444777.88	0.2653	0.2273
Venus	100551-04-16 16:04 G	38446664.02	38446664.17	38446664.32	0.2632	0.0764

Mercury	100555-08-25 14:38 G	38448256.04	38448256.11	38448256.17	0.2691	0.2455
Mercury	100559-02-18 01:26 G	38449528.45	38449528.56	38449528.66	0.2649	0.0683
Venus	100559-04-14 08:09 G	38449583.74	38449583.84	38449583.94	0.2628	0.2054
Mercury	100572-02-20 18:43 G	38454279.18	38454279.28	38454279.38	0.2644	0.0762
Mercury	100585-02-22 11:31 G	38459029.93	38459029.98	38459030.03	0.2637	0.2315
Mercury	100588-08-22 11:16 G	38460306.82	38460306.97	38460307.13	0.2693	0.0724
Mercury	100592-02-16 12:43 G	38461579.95	38461580.03	38461580.10	0.2653	0.1969
Mercury	100605-02-19 06:14 G	38466330.65	38466330.76	38466330.87	0.2648	0.0385
Mercury	100618-02-21 23:16 G	38471081.38	38471081.47	38471081.57	0.2643	0.1162
Mercury	100631-02-24 16:04 G	38475832.14	38475832.17	38475832.20	0.2636	0.2488
Mercury	100634-08-24 18:43 G	38477109.12	38477109.28	38477109.44	0.2692	0.0225
Mercury	100638-02-17 17:31 G	38478382.14	38478382.23	38478382.31	0.2652	0.1597
Mercury	100651-02-20 11:02 G	38483132.85	38483132.96	38483133.07	0.2647	0.0085
Mercury	100664-02-23 04:04 G	38487883.57	38487883.67	38487883.76	0.2641	0.1389
Venus	100664-10-15 22:33 G	38488119.29	38488119.44	38488119.60	0.2702	0.0457
Mercury	100680-08-25 01:54 G	38493911.43	38493911.58	38493911.73	0.2691	0.0880
Mercury	100684-02-18 22:18 G	38495184.34	38495184.43	38495184.53	0.2651	0.1348
Mercury	100697-02-20 15:50 G	38499935.05	38499935.16	38499935.26	0.2647	0.0283
Mercury	100710-02-24 08:38 G	38504685.78	38504685.86	38504685.94	0.2639	0.1693
Mercury	100713-08-23 22:33 G	38505962.35	38505962.44	38505962.52	0.2692	0.2257
Mercury	100717-02-17 09:35 G	38507235.89	38507235.90	38507235.92	0.2653	0.2609
Mercury	100726-08-27 08:52 G	38510713.74	38510713.87	38510714.00	0.2691	0.1645
Mercury	100730-02-20 03:21 G	38511986.53	38511986.64	38511986.74	0.2650	0.0913
Mercury	100743-02-22 20:23 G	38516737.25	38516737.35	38516737.46	0.2645	0.0499
Mercury	100756-02-25 13:26 G	38521487.99	38521488.06	38521488.12	0.2638	0.2020
Mercury	100759-08-25 05:59 G	38522764.62	38522764.75	38522764.88	0.2691	0.1620
Mercury	100763-02-18 14:23 G	38524038.05	38524038.10	38524038.16	0.2652	0.2179
Mercury	100772-08-27 15:50 G	38527516.09	38527516.16	38527516.24	0.2690	0.2380
Mercury	100776-02-21 08:09 G	38528788.73	38528788.84	38528788.94	0.2649	0.0726
Mercury	100789-02-23 01:11 G	38533539.45	38533539.55	38533539.65	0.2642	0.0902

Venus	100794-04-18 09:21 G	38535419.72	38535419.89	38535420.06	0.2622	0.0624
Mercury	100802-02-25 17:59 G	38538290.20	38538290.25	38538290.30	0.2638	0.2252
Mercury	100805-08-25 13:11 G	38539566.89	38539567.05	38539567.21	0.2691	0.0645
Mercury	100809-02-18 19:26 G	38540840.24	38540840.31	38540840.38	0.2652	0.1907
Mercury	100822-02-21 12:42 G	38545590.93	38545591.03	38545591.14	0.2648	0.0299
Mercury	100835-02-24 05:45 G	38550341.65	38550341.74	38550341.84	0.2640	0.1083
Mercury	100848-02-26 22:33 G	38555092.43	38555092.44	38555092.45	0.2637	0.2613
Mercury	100851-08-26 20:23 G	38556369.19	38556369.35	38556369.51	0.2691	0.0162
Mercury	100855-02-20 00:14 G	38557642.43	38557642.51	38557642.60	0.2652	0.1558
Mercury	100868-02-22 17:30 G	38562393.12	38562393.23	38562393.34	0.2646	0.0084
Mercury	100881-02-24 10:33 G	38567143.85	38567143.94	38567144.03	0.2640	0.1503
Mercury	100897-08-27 03:06 G	38573171.48	38573171.63	38573171.79	0.2690	0.0801
Venus	100899-10-19 22:33 G	38573955.36	38573955.44	38573955.51	0.2702	0.2327
Mercury	100901-02-21 05:02 G	38574444.62	38574444.71	38574444.80	0.2651	0.1245
Venus	100907-10-18 14:52 G	38576874.97	38576875.12	38576875.26	0.2708	0.0701
Mercury	100914-02-23 22:18 G	38579195.32	38579195.43	38579195.54	0.2644	0.0285
Mercury	100927-02-26 15:06 G	38583946.05	38583946.13	38583946.22	0.2639	0.1688
Mercury	100930-08-26 00:28 G	38585222.45	38585222.52	38585222.58	0.2691	0.2442
Mercury	100934-02-19 16:33 G	38586496.15	38586496.19	38586496.23	0.2653	0.2435
Mercury	100943-08-29 10:18 G	38589973.79	38589973.93	38589974.07	0.2688	0.1340
Mercury	100947-02-22 09:50 G	38591246.81	38591246.91	38591247.01	0.2650	0.0970
Mercury	100960-02-25 03:06 G	38595997.52	38595997.63	38595997.73	0.2643	0.0595
Mercury	100973-02-26 19:40 G	38600748.26	38600748.32	38600748.39	0.2638	0.2036
Mercury	100976-08-26 07:26 G	38602024.68	38602024.81	38602024.93	0.2691	0.1731
Mercury	100980-02-20 21:21 G	38603298.33	38603298.39	38603298.44	0.2653	0.2231
Mercury	100989-08-29 17:16 G	38606776.13	38606776.22	38606776.31	0.2687	0.2187
Mercury	100993-02-22 14:38 G	38608049.00	38608049.11	38608049.21	0.2648	0.0570

102ND MILLENNIUM CE

This is a list of transits visible from Moon in the 102nd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	101006-02-26 07:40	G	38612799.72	38612799.82	38612799.92	0.2642	0.0859	
Mercury	101019-03-01 00:28	G	38617550.46	38617550.52	38617550.57	0.2637	0.2289	
Mercury	101022-08-28 14:23	G	38618826.96	38618827.10	38618827.25	0.2690	0.1051	
Mercury	101026-02-22 01:54	G	38620100.51	38620100.58	38620100.66	0.2653	0.1798	
Venus	101037-04-20 14:23	G	38624175.96	38624176.10	38624176.24	0.2634	0.0969	
Mercury	101039-02-24 19:26	G	38624851.20	38624851.31	38624851.42	0.2646	0.0364	
Venus	101045-04-18 07:26	G	38627095.71	38627095.81	38627095.92	0.2631	0.1943	
Mercury	101052-02-27 12:28	G	38629601.92	38629602.02	38629602.11	0.2641	0.1209	
Mercury	101065-03-01 05:02	G	38634352.69	38634352.71	38634352.73	0.2636	0.2562	
Mercury	101068-08-28 21:35	G	38635629.24	38635629.40	38635629.56	0.2688	0.0159	
Mercury	101072-02-23 06:57	G	38636902.70	38636902.79	38636902.87	0.2651	0.1585	
Mercury	101085-02-25 00:14	G	38641653.40	38641653.51	38641653.61	0.2646	0.0120	
Mercury	101098-02-27 17:02	G	38646404.12	38646404.21	38646404.30	0.2639	0.1404	
Mercury	101114-08-31 04:47	G	38652431.54	38652431.70	38652431.86	0.2687	0.0390	
Mercury	101118-02-24 11:45	G	38653704.89	38653704.99	38653705.08	0.2650	0.1177	
Mercury	101131-02-27 04:47	G	38658455.60	38658455.70	38658455.81	0.2645	0.0262	
Mercury	101144-02-29 21:35	G	38663206.32	38663206.40	38663206.48	0.2638	0.1805	
Venus	101150-10-21 03:50	G	38665631.50	38665631.66	38665631.82	0.2703	0.0184	
Mercury	101151-02-22 23:02	G	38665756.42	38665756.46	38665756.49	0.2654	0.2466	
Mercury	101160-08-31 11:45	G	38669233.85	38669233.99	38669234.13	0.2687	0.1350	
Mercury	101164-02-25 16:33	G	38670507.09	38670507.19	38670507.29	0.2649	0.0899	
Mercury	101177-02-27 09:35	G	38675257.79	38675257.90	38675258.00	0.2643	0.0652	

Mercury	101190-03-02 02:23 G	38680008.53	38680008.60	38680008.67	0.2637	0.1981
Mercury	101193-08-29 08:52 G	38681284.76	38681284.87	38681284.99	0.2688	0.1860
Mercury	101197-02-23 03:50 G	38682558.60	38682558.66	38682558.72	0.2653	0.2103
Mercury	101206-09-01 18:42 G	38686036.16	38686036.28	38686036.40	0.2687	0.1819
Mercury	101210-02-25 21:21 G	38687309.28	38687309.39	38687309.49	0.2648	0.0587
Mercury	101223-02-28 14:09 G	38692059.99	38692060.09	38692060.20	0.2641	0.0881
Mercury	101236-03-02 06:57 G	38696810.75	38696810.79	38696810.83	0.2637	0.2393
Mercury	101239-08-30 16:04 G	38698087.03	38698087.17	38698087.32	0.2688	0.1220
Mercury	101243-02-24 08:38 G	38699360.79	38699360.86	38699360.94	0.2652	0.1855
Mercury	101256-02-27 01:54 G	38704111.47	38704111.58	38704111.69	0.2648	0.0265
Mercury	101269-02-28 18:57 G	38708862.19	38708862.29	38708862.39	0.2640	0.1212
Venus	101280-04-21 11:59 G	38712931.83	38712932.00	38712932.17	0.2621	0.0563
Mercury	101282-03-03 11:30 G	38713612.97	38713612.98	38713613.00	0.2637	0.2586
Mercury	101285-08-30 23:16 G	38714889.30	38714889.47	38714889.63	0.2689	0.0424
Mercury	101289-02-24 13:26 G	38716162.97	38716163.06	38716163.15	0.2652	0.1437
Mercury	101302-02-28 06:42 G	38720913.67	38720913.78	38720913.89	0.2646	0.0007
Mercury	101315-03-02 23:45 G	38725664.40	38725664.49	38725664.57	0.2640	0.1510
Mercury	101331-09-02 05:59 G	38731691.59	38731691.75	38731691.91	0.2688	0.0261
Mercury	101335-02-26 18:14 G	38732965.16	38732965.26	38732965.35	0.2652	0.1245
Mercury	101348-02-29 11:30 G	38737715.87	38737715.98	38737716.08	0.2644	0.0396
Mercury	101361-03-03 04:18 G	38742466.60	38742466.68	38742466.76	0.2640	0.1790
Mercury	101368-02-25 05:30 G	38745016.70	38745016.73	38745016.77	0.2654	0.2470
Mercury	101377-09-02 12:57 G	38748493.89	38748494.04	38748494.20	0.2687	0.0948
Mercury	101381-02-26 23:02 G	38749767.35	38749767.46	38749767.56	0.2651	0.0818
Venus	101393-10-21 19:54 G	38754387.18	38754387.33	38754387.48	0.2703	0.0880
Mercury	101394-03-01 16:18 G	38754518.07	38754518.18	38754518.28	0.2644	0.0600
Mercury	101407-03-05 08:52 G	38759268.81	38759268.87	38759268.94	0.2639	0.2124
Mercury	101410-09-01 10:18 G	38760544.84	38760544.93	38760545.01	0.2690	0.2289
Mercury	101414-02-26 10:18 G	38761818.87	38761818.93	38761819.00	0.2654	0.2079
Mercury	101423-09-04 19:54 G	38765296.21	38765296.33	38765296.45	0.2686	0.1801

Mercury	101427-03-01 03:50 G	38766569.55	38766569.66	38766569.76	0.2649	0.0611
Mercury	101440-03-02 20:52 G	38771320.27	38771320.37	38771320.47	0.2644	0.1020
Mercury	101453-03-05 13:40 G	38776071.02	38776071.07	38776071.11	0.2638	0.2334
Mercury	101456-09-01 17:16 G	38777347.08	38777347.22	38777347.36	0.2689	0.1314
Mercury	101460-02-27 15:06 G	38778621.05	38778621.13	38778621.21	0.2654	0.1835
Mercury	101469-09-05 03:06 G	38782098.56	38782098.63	38782098.71	0.2686	0.2363
Mercury	101473-03-01 08:38 G	38783371.75	38783371.86	38783371.96	0.2648	0.0208
Mercury	101486-03-04 01:40 G	38788122.47	38788122.57	38788122.66	0.2643	0.1197
Mercury	101502-09-04 00:14 G	38794149.36	38794149.51	38794149.67	0.2688	0.0801
Mercury	101506-02-28 19:54 G	38795423.24	38795423.33	38795423.42	0.2653	0.1481
Mercury	101519-03-03 13:26 G	38800173.95	38800174.06	38800174.16	0.2647	0.0123
Venus	101523-04-25 09:35 G	38801687.76	38801687.90	38801688.04	0.2634	0.0957
Mercury	101532-03-05 06:14 G	38804924.67	38804924.76	38804924.84	0.2641	0.1599
Mercury	101548-09-04 07:26 G	38810951.65	38810951.81	38810951.97	0.2687	0.0166
Mercury	101552-03-01 00:42 G	38812225.43	38812225.53	38812225.63	0.2652	0.1150
Mercury	101565-03-03 17:59 G	38816976.14	38816976.25	38816976.36	0.2647	0.0404
Mercury	101578-03-06 10:47 G	38821726.88	38821726.95	38821727.03	0.2640	0.1804
Mercury	101585-02-27 11:59 G	38824276.95	38824277.00	38824277.04	0.2654	0.2393
Mercury	101594-09-05 14:38 G	38827753.95	38827754.11	38827754.26	0.2688	0.0715
Mercury	101598-03-02 05:30 G	38829027.63	38829027.73	38829027.83	0.2651	0.0878
Mercury	101611-03-04 22:47 G	38833778.34	38833778.45	38833778.55	0.2646	0.0678
Mercury	101624-03-06 15:35 G	38838529.09	38838529.15	38838529.21	0.2639	0.2181
Mercury	101627-09-03 11:30 G	38839804.90	38839804.98	38839805.05	0.2689	0.2370
Mercury	101631-02-28 16:47 G	38841079.14	38841079.20	38841079.26	0.2654	0.2164
Venus	101636-10-24 06:14 G	38843143.61	38843143.76	38843143.91	0.2710	0.0245
Mercury	101640-09-05 21:21 G	38844556.27	38844556.39	38844556.53	0.2688	0.1603
Mercury	101644-03-02 10:18 G	38845829.82	38845829.93	38845830.03	0.2651	0.0491
Mercury	101657-03-05 03:21 G	38850580.54	38850580.64	38850580.74	0.2644	0.0969
Mercury	101670-03-07 20:23 G	38855331.31	38855331.35	38855331.39	0.2639	0.2428
Mercury	101673-09-03 18:28 G	38856607.15	38856607.27	38856607.40	0.2689	0.1712

Mercury	101677-02-28 21:35 G	38857881.32	38857881.40	38857881.48	0.2653	0.1727
Mercury	101686-09-07 04:18 G	38861358.59	38861358.68	38861358.78	0.2688	0.2204
Mercury	101690-03-03 14:52 G	38862632.02	38862632.12	38862632.23	0.2651	0.0294
Mercury	101703-03-07 08:09 G	38867382.75	38867382.84	38867382.93	0.2643	0.1329
Mercury	101719-09-06 01:40 G	38873409.41	38873409.57	38873409.72	0.2690	0.0827
Mercury	101723-03-03 02:23 G	38874683.52	38874683.60	38874683.69	0.2653	0.1518
Mercury	101736-03-04 19:40 G	38879434.21	38879434.32	38879434.43	0.2649	0.0153
Mercury	101749-03-07 12:57 G	38884184.95	38884185.04	38884185.13	0.2643	0.1561
Mercury	101765-09-06 08:38 G	38890211.70	38890211.86	38890212.02	0.2690	0.0271
Venus	101766-04-26 17:02 G	38890444.06	38890444.21	38890444.36	0.2624	0.1082
Mercury	101769-03-03 07:11 G	38891485.70	38891485.80	38891485.89	0.2653	0.1102
Venus	101774-04-24 02:38 G	38893363.54	38893363.61	38893363.69	0.2622	0.2325
Mercury	101782-03-06 00:28 G	38896236.42	38896236.52	38896236.63	0.2648	0.0352
Mercury	101795-03-08 17:30 G	38900987.16	38900987.23	38900987.31	0.2643	0.1963
Mercury	101802-03-02 18:28 G	38903537.23	38903537.27	38903537.31	0.2654	0.2398
Mercury	101811-09-08 15:35 G	38907014.00	38907014.15	38907014.31	0.2689	0.0679
Mercury	101815-03-05 11:45 G	38908287.89	38908287.99	38908288.10	0.2653	0.0896
Mercury	101828-03-07 05:16 G	38913038.62	38913038.72	38913038.82	0.2646	0.0779
Mercury	101841-03-09 22:18 G	38917789.37	38917789.43	38917789.49	0.2642	0.2145
Mercury	101844-09-05 12:28 G	38919064.97	38919065.02	38919065.07	0.2691	0.2552
Mercury	101848-03-02 23:16 G	38920339.41	38920339.47	38920339.54	0.2655	0.2080
Mercury	101857-09-08 22:47 G	38923816.31	38923816.45	38923816.60	0.2687	0.1191
Mercury	101861-03-05 16:47 G	38925090.09	38925090.20	38925090.30	0.2651	0.0501
Mercury	101874-03-08 10:04 G	38929840.82	38929840.92	38929841.02	0.2646	0.0982
Venus	101879-10-27 06:42 G	38931899.61	38931899.78	38931899.94	0.2697	0.0507
Mercury	101887-03-11 02:52 G	38934591.59	38934591.62	38934591.65	0.2640	0.2543
Mercury	101890-09-06 19:40 G	38935867.21	38935867.32	38935867.43	0.2690	0.1985
Mercury	101894-03-04 04:04 G	38937141.59	38937141.67	38937141.75	0.2655	0.1799
Mercury	101903-09-11 05:59 G	38940618.65	38940618.75	38940618.84	0.2686	0.2178
Mercury	101907-03-07 21:35 G	38941892.29	38941892.40	38941892.51	0.2650	0.0183

Mercury	101920-03-09 14:52 G	38946643.02	38946643.12	38946643.21	0.2645	0.1382
Mercury	101936-09-08 02:52 G	38952669.47	38952669.62	38952669.77	0.2688	0.1115
Mercury	101940-03-05 08:52 G	38953943.78	38953943.87	38953943.96	0.2654	0.1420
Mercury	101949-09-11 12:57 G	38957421.02	38957421.04	38957421.05	0.2687	0.2671
Mercury	101953-03-08 02:23 G	38958694.49	38958694.60	38958694.71	0.2649	0.0112
Mercury	101966-03-10 19:26 G	38963445.23	38963445.31	38963445.40	0.2644	0.1617
Mercury	101973-03-03 20:09 G	38965995.33	38965995.34	38965995.35	0.2655	0.2639
Mercury	101982-09-09 10:04 G	38969471.76	38969471.92	38969472.08	0.2688	0.0358
Mercury	101986-03-06 13:40 G	38970745.98	38970746.07	38970746.17	0.2653	0.1170
Mercury	101999-03-09 07:11 G	38975496.69	38975496.80	38975496.90	0.2649	0.0481

103RD MILLENNIUM CE

This is a list of transits visible from Moon in the 103rd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	102009-04-28 06:14 G		38979199.60	38979199.76	38979199.92	0.2631	0.0391	
Mercury	102012-03-10 23:59 G		38980247.43	38980247.50	38980247.58	0.2642	0.1927	
Mercury	102019-03-05 00:57 G		38982797.50	38982797.54	38982797.58	0.2655	0.2450	
Mercury	102028-09-09 17:16 G		38986274.06	38986274.22	38986274.38	0.2688	0.0340	
Mercury	102032-03-06 18:28 G		38987548.17	38987548.27	38987548.38	0.2652	0.0735	
Mercury	102045-03-09 11:45 G		38992298.89	38992298.99	38992299.10	0.2648	0.0720	
Mercury	102058-03-12 04:47 G		38997049.65	38997049.70	38997049.75	0.2640	0.2265	
Mercury	102065-03-05 05:45 G		38999599.67	38999599.74	38999599.81	0.2654	0.2021	
Mercury	102074-09-11 00:14 G		39003076.36	39003076.51	39003076.66	0.2688	0.1171	

Mercury	102078-03-07 23:30 G	39004350.37	39004350.48	39004350.58	0.2652	0.0539
Mercury	102091-03-10 16:33 G	39009101.09	39009101.19	39009101.29	0.2646	0.1121
Mercury	102104-03-13 09:35 G	39013851.87	39013851.90	39013851.93	0.2640	0.2512
Mercury	102107-09-09 21:06 G	39015127.27	39015127.38	39015127.49	0.2688	0.1966
Mercury	102111-03-07 10:33 G	39016401.87	39016401.94	39016402.02	0.2654	0.1768
Mercury	102120-09-12 07:11 G	39019878.67	39019878.80	39019878.92	0.2687	0.1748
Venus	102122-10-29 06:57 G	39020655.64	39020655.79	39020655.94	0.2710	0.0222
Mercury	102124-03-09 04:04 G	39021152.56	39021152.67	39021152.78	0.2652	0.0106
Mercury	102137-03-11 21:21 G	39025903.30	39025903.39	39025903.48	0.2644	0.1313
Mercury	102153-09-10 04:18 G	39031929.55	39031929.68	39031929.82	0.2689	0.1456
Mercury	102157-03-07 15:35 G	39033204.06	39033204.15	39033204.24	0.2654	0.1396
Mercury	102166-09-13 14:09 G	39036681.07	39036681.09	39036681.10	0.2686	0.2664
Mercury	102170-03-10 08:52 G	39037954.76	39037954.87	39037954.98	0.2650	0.0110
Mercury	102183-03-13 01:54 G	39042705.50	39042705.58	39042705.66	0.2644	0.1747
Mercury	102199-09-11 11:16 G	39048731.81	39048731.97	39048732.13	0.2689	0.0501
Mercury	102203-03-09 20:23 G	39050006.25	39050006.35	39050006.44	0.2654	0.1092
Mercury	102216-03-11 13:40 G	39054756.96	39054757.07	39054757.17	0.2649	0.0502
Mercury	102229-03-14 06:42 G	39059507.71	39059507.78	39059507.85	0.2643	0.1932
Mercury	102236-03-07 07:40 G	39062057.77	39062057.82	39062057.87	0.2655	0.2312
Mercury	102245-09-12 18:14 G	39065534.10	39065534.26	39065534.43	0.2688	0.0093
Mercury	102249-03-10 00:57 G	39066808.44	39066808.54	39066808.65	0.2654	0.0796
Venus	102252-04-30 16:47 G	39067956.07	39067956.20	39067956.32	0.2630	0.1639
Venus	102260-04-28 05:45 G	39070875.64	39070875.74	39070875.84	0.2625	0.2082
Mercury	102262-03-12 18:28 G	39071559.17	39071559.27	39071559.37	0.2647	0.0794
Mercury	102275-03-15 11:16 G	39076309.93	39076309.97	39076310.02	0.2642	0.2333
Mercury	102282-03-08 12:28 G	39078859.95	39078860.02	39078860.08	0.2655	0.2083
Mercury	102291-09-14 01:26 G	39082336.40	39082336.56	39082336.71	0.2686	0.0918
Mercury	102295-03-11 05:45 G	39083610.64	39083610.74	39083610.85	0.2652	0.0423
Mercury	102308-03-13 23:16 G	39088361.37	39088361.47	39088361.56	0.2647	0.1106
Mercury	102321-03-16 16:04 G	39093112.15	39093112.17	39093112.19	0.2641	0.2556

Mercury	102324-09-11 22:18 G	39094387.36	39094387.43	39094387.50	0.2689	0.2386
Mercury	102328-03-09 17:16 G	39095662.13	39095662.22	39095662.30	0.2655	0.1651
Mercury	102337-09-15 08:38 G	39099138.73	39099138.86	39099138.99	0.2686	0.1632
Mercury	102341-03-12 10:47 G	39100412.84	39100412.95	39100413.05	0.2651	0.0198
Mercury	102354-03-15 03:50 G	39105163.57	39105163.66	39105163.75	0.2647	0.1440
Venus	102365-10-31 15:50 G	39109412.00	39109412.16	39109412.31	0.2698	0.0463
Mercury	102370-09-13 05:30 G	39111189.59	39111189.73	39111189.86	0.2688	0.1482
Mercury	102374-03-10 22:04 G	39112464.33	39112464.42	39112464.51	0.2654	0.1450
Mercury	102383-09-16 15:35 G	39115941.08	39115941.15	39115941.23	0.2686	0.2368
Mercury	102387-03-13 15:35 G	39117215.04	39117215.15	39117215.25	0.2650	0.0292
Mercury	102400-03-15 08:37 G	39121965.78	39121965.86	39121965.94	0.2645	0.1680
Mercury	102416-09-13 12:42 G	39127991.88	39127992.03	39127992.19	0.2687	0.0916
Mercury	102420-03-11 02:52 G	39129266.52	39129266.62	39129266.72	0.2654	0.1012
Mercury	102433-03-13 20:09 G	39134017.24	39134017.34	39134017.45	0.2650	0.0468
Mercury	102446-03-16 13:11 G	39138767.99	39138768.05	39138768.12	0.2642	0.2077
Mercury	102453-03-09 14:09 G	39141318.04	39141318.09	39141318.14	0.2655	0.2318
Mercury	102462-09-14 19:54 G	39144794.16	39144794.33	39144794.49	0.2686	0.0101
Mercury	102466-03-12 07:40 G	39146068.72	39146068.82	39146068.92	0.2653	0.0748
Mercury	102479-03-15 00:57 G	39150819.44	39150819.54	39150819.64	0.2649	0.0888
Mercury	102492-03-16 17:59 G	39155570.20	39155570.25	39155570.30	0.2641	0.2258
Venus	102495-05-02 06:13 G	39156711.59	39156711.76	39156711.93	0.2626	0.0066
Mercury	102499-03-10 18:57 G	39158120.22	39158120.29	39158120.36	0.2655	0.1998
Mercury	102508-09-16 02:52 G	39161596.47	39161596.62	39161596.78	0.2687	0.0582
Mercury	102512-03-13 12:28 G	39162870.91	39162871.02	39162871.13	0.2652	0.0383
Mercury	102525-03-16 05:45 G	39167621.64	39167621.74	39167621.84	0.2647	0.1099
Mercury	102541-09-13 23:59 G	39173647.45	39173647.50	39173647.55	0.2687	0.2537
Mercury	102545-03-11 23:45 G	39174922.41	39174922.49	39174922.57	0.2655	0.1693
Mercury	102554-09-17 09:49 G	39178398.77	39178398.91	39178399.04	0.2686	0.1521
Mercury	102558-03-14 17:16 G	39179673.11	39179673.22	39179673.33	0.2652	0.0086
Mercury	102571-03-17 10:33 G	39184423.85	39184423.94	39184424.03	0.2644	0.1475

Mercury	102587-09-15 06:57 G	39190449.67	39190449.79	39190449.91	0.2687	0.1749
Mercury	102591-03-13 04:33 G	39191724.60	39191724.69	39191724.79	0.2654	0.1281
Mercury	102600-09-18 16:47 G	39195201.09	39195201.20	39195201.30	0.2684	0.2057
Mercury	102604-03-15 22:04 G	39196475.31	39196475.42	39196475.53	0.2651	0.0223
Venus	102608-11-02 10:18 G	39198167.78	39198167.93	39198168.07	0.2708	0.0704
Mercury	102617-03-18 15:06 G	39201226.05	39201226.13	39201226.21	0.2644	0.1761
Mercury	102624-03-11 15:49 G	39203776.14	39203776.16	39203776.19	0.2655	0.2556
Mercury	102633-09-16 14:09 G	39207251.93	39207252.09	39207252.24	0.2687	0.0998
Mercury	102637-03-14 09:21 G	39208526.80	39208526.89	39208526.99	0.2654	0.1071
Mercury	102650-03-17 02:52 G	39213277.51	39213277.62	39213277.72	0.2649	0.0606
Mercury	102663-03-19 19:54 G	39218028.26	39218028.33	39218028.39	0.2643	0.2063
Mercury	102670-03-12 20:52 G	39220578.32	39220578.37	39220578.42	0.2655	0.2322
Mercury	102679-09-17 21:06 G	39224054.22	39224054.38	39224054.54	0.2686	0.0324
Mercury	102683-03-15 14:09 G	39225328.99	39225329.09	39225329.20	0.2654	0.0633
Mercury	102696-03-17 07:40 G	39230079.72	39230079.82	39230079.92	0.2647	0.0823
Mercury	102709-03-21 00:28 G	39234830.48	39234830.52	39234830.56	0.2642	0.2390
Mercury	102716-03-14 01:40 G	39237380.49	39237380.57	39237380.64	0.2656	0.1907
Mercury	102725-09-19 04:04 G	39240856.51	39240856.67	39240856.83	0.2684	0.0560
Mercury	102729-03-16 18:57 G	39242131.19	39242131.29	39242131.40	0.2652	0.0430
Venus	102738-05-05 13:54 G	39245467.95	39245468.08	39245468.20	0.2634	0.1525
Mercury	102742-03-19 12:13 G	39246881.92	39246882.01	39246882.11	0.2646	0.1264
Venus	102746-05-03 05:45 G	39248387.69	39248387.74	39248387.80	0.2630	0.2470
Mercury	102755-03-22 05:01 G	39251632.70	39251632.71	39251632.73	0.2640	0.2608
Mercury	102758-09-17 01:11 G	39252907.51	39252907.55	39252907.58	0.2687	0.2619
Mercury	102762-03-15 06:28 G	39254182.68	39254182.77	39254182.85	0.2656	0.1653
Mercury	102771-09-20 11:01 G	39257658.81	39257658.96	39257659.11	0.2683	0.1088
Mercury	102775-03-17 23:59 G	39258933.39	39258933.50	39258933.60	0.2651	0.0091
Mercury	102788-03-19 17:01 G	39263684.12	39263684.21	39263684.30	0.2646	0.1437
Mercury	102804-09-17 08:23 G	39269709.74	39269709.85	39269709.95	0.2685	0.2066
Mercury	102808-03-15 11:16 G	39270984.87	39270984.97	39270985.06	0.2655	0.1300

Mercury	102817-09-20 17:59 G	39274461.15	39274461.25	39274461.35	0.2683	0.2060
Mercury	102821-03-18 04:47 G	39275735.59	39275735.70	39275735.80	0.2650	0.0281
Mercury	102834-03-20 21:35 G	39280486.33	39280486.40	39280486.48	0.2644	0.1854
Mercury	102841-03-13 22:33 G	39283036.42	39283036.44	39283036.46	0.2656	0.2603
Mercury	102850-09-18 15:21 G	39286511.99	39286512.14	39286512.29	0.2684	0.1156
Venus	102851-11-04 22:18 G	39286924.29	39286924.43	39286924.58	0.2701	0.0979
Mercury	102854-03-16 16:04 G	39287787.07	39287787.17	39287787.27	0.2654	0.0951
Mercury	102863-09-22 00:57 G	39291263.49	39291263.54	39291263.59	0.2683	0.2543
Mercury	102867-03-19 09:21 G	39292537.79	39292537.89	39292538.00	0.2649	0.0626
Mercury	102880-03-21 02:23 G	39297288.53	39297288.60	39297288.66	0.2642	0.2057
Mercury	102887-03-15 03:21 G	39299838.58	39299838.64	39299838.70	0.2656	0.2182
Mercury	102896-09-18 22:18 G	39303314.27	39303314.43	39303314.59	0.2684	0.0509
Mercury	102900-03-17 20:52 G	39304589.27	39304589.37	39304589.48	0.2653	0.0674
Mercury	102913-03-20 14:09 G	39309339.99	39309340.09	39309340.19	0.2648	0.0926
Mercury	102926-03-23 06:57 G	39314090.75	39314090.79	39314090.83	0.2640	0.2399
Mercury	102933-03-16 08:09 G	39316640.77	39316640.84	39316640.92	0.2655	0.1959
Mercury	102942-09-21 05:16 G	39320116.56	39320116.72	39320116.89	0.2683	0.0257
Mercury	102946-03-19 01:54 G	39321391.47	39321391.58	39321391.68	0.2651	0.0260
Mercury	102959-03-21 18:57 G	39326142.19	39326142.29	39326142.38	0.2646	0.1198
Mercury	102979-03-17 13:11 G	39333442.96	39333443.05	39333443.13	0.2655	0.1512
Venus	102981-05-06 06:57 G	39334223.61	39334223.79	39334223.96	0.2624	0.0320
Mercury	102988-09-21 12:13 G	39336918.86	39336919.01	39336919.16	0.2683	0.1008
Mercury	102992-03-19 06:28 G	39338193.66	39338193.77	39338193.88	0.2651	0.0056

104TH MILLENNIUM CE

This is a list of transits visible from Moon in the 104th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	103005-03-22 23:30	G	39342944.40	39342944.48	39342944.57	0.2644	0.1583	
Mercury	103021-09-20 09:49	G	39348969.80	39348969.91	39348970.01	0.2684	0.2030	
Mercury	103025-03-18 17:59	G	39350245.16	39350245.25	39350245.34	0.2654	0.1273	
Mercury	103034-09-23 18:57	G	39353721.16	39353721.29	39353721.43	0.2681	0.1601	
Mercury	103038-03-21 11:16	G	39354995.86	39354995.97	39354996.07	0.2650	0.0393	
Mercury	103051-03-24 04:04	G	39359746.59	39359746.67	39359746.75	0.2641	0.1761	
Mercury	103058-03-17 05:30	G	39362296.69	39362296.73	39362296.77	0.2656	0.2457	
Mercury	103067-09-21 16:18	G	39365772.05	39365772.18	39365772.32	0.2681	0.1572	
Mercury	103071-03-19 23:01	G	39367047.36	39367047.46	39367047.56	0.2651	0.0865	
Mercury	103080-09-24 00:28	G	39370523.44	39370523.52	39370523.61	0.2679	0.2314	
Mercury	103084-03-21 15:49	G	39371798.06	39371798.16	39371798.27	0.2643	0.0613	
Venus	103094-11-06 17:59	G	39375680.10	39375680.25	39375680.39	0.2709	0.0364	
Mercury	103097-03-24 08:23	G	39376548.79	39376548.85	39376548.92	0.2639	0.2081	
Mercury	103104-03-18 10:47	G	39379098.88	39379098.95	39379099.01	0.2652	0.2138	
Mercury	103113-09-22 21:49	G	39382574.25	39382574.41	39382574.56	0.2678	0.1000	
Mercury	103117-03-21 03:35	G	39383849.55	39383849.65	39383849.76	0.2646	0.0515	
Mercury	103130-03-23 20:09	G	39388600.23	39388600.34	39388600.44	0.2640	0.0804	
Mercury	103143-03-26 12:28	G	39393350.97	39393351.02	39393351.07	0.2644	0.2303	
Mercury	103150-03-19 15:21	G	39395901.06	39395901.14	39395901.22	0.2645	0.1738	
Mercury	103159-09-24 02:52	G	39399376.46	39399376.62	39399376.79	0.2682	0.0389	
Mercury	103163-03-22 07:25	G	39400651.71	39400651.81	39400651.92	0.2642	0.0426	
Mercury	103176-03-24 00:13	G	39405402.41	39405402.51	39405402.61	0.2646	0.1096	
Mercury	103189-03-26 17:30	G	39410153.20	39410153.23	39410153.25	0.2651	0.2566	
Mercury	103196-03-19 19:11	G	39412703.21	39412703.30	39412703.38	0.2644	0.1552	
Mercury	103205-09-24 11:01	G	39416178.80	39416178.96	39416179.12	0.2690	0.0378	
Mercury	103209-03-22 11:45	G	39417453.89	39417453.99	39417454.10	0.2648	0.0218	

Mercury	103222-03-25 05:16 G	39422204.64	39422204.72	39422204.81	0.2653	0.1498
Venus	103224-05-08 03:35 G	39422979.48	39422979.65	39422979.81	0.2629	0.0122
Mercury	103238-09-22 08:37 G	39428229.83	39428229.86	39428229.89	0.2690	0.2625
Mercury	103242-03-20 23:30 G	39429505.39	39429505.48	39429505.57	0.2651	0.1379
Mercury	103251-09-25 20:23 G	39432981.21	39432981.35	39432981.49	0.2690	0.1363
Mercury	103255-03-23 17:16 G	39434256.11	39434256.22	39434256.32	0.2654	0.0315
Mercury	103268-03-25 10:47 G	39439006.87	39439006.95	39439007.03	0.2650	0.1831
Mercury	103275-03-19 11:16 G	39441556.94	39441556.97	39441557.01	0.2654	0.2484
Mercury	103284-09-22 17:59 G	39445032.12	39445032.25	39445032.38	0.2686	0.1621
Mercury	103288-03-21 05:01 G	39446307.61	39446307.71	39446307.81	0.2655	0.0978
Mercury	103297-09-26 03:35 G	39449783.57	39449783.65	39449783.73	0.2683	0.2314
Mercury	103301-03-24 22:33 G	39451058.34	39451058.44	39451058.55	0.2650	0.0745
Mercury	103314-03-27 15:21 G	39455809.08	39455809.14	39455809.21	0.2641	0.2130
Mercury	103321-03-20 16:47 G	39458359.14	39458359.20	39458359.26	0.2656	0.2149
Mercury	103330-09-25 00:28 G	39461834.37	39461834.52	39461834.67	0.2679	0.1091
Mercury	103334-03-23 10:18 G	39463109.82	39463109.93	39463110.04	0.2649	0.0473
Venus	103337-11-09 03:49 G	39464436.51	39464436.66	39464436.80	0.2700	0.1064
Mercury	103347-03-26 03:06 G	39467860.53	39467860.63	39467860.73	0.2642	0.0918
Mercury	103360-03-27 19:25 G	39472611.26	39472611.31	39472611.35	0.2639	0.2400
Mercury	103367-03-21 22:04 G	39475161.34	39475161.42	39475161.49	0.2649	0.1769
Mercury	103376-09-25 05:16 G	39478636.55	39478636.72	39478636.88	0.2679	0.0586
Mercury	103380-03-23 14:37 G	39479912.00	39479912.11	39479912.22	0.2642	0.0216
Mercury	103393-03-26 06:57 G	39484662.69	39484662.79	39484662.89	0.2642	0.1080
Mercury	103406-03-29 23:45 G	39489413.49	39489413.49	39489413.49	0.2647	0.2644
Mercury	103413-03-23 02:09 G	39491963.50	39491963.59	39491963.68	0.2642	0.1449
Mercury	103422-09-27 11:30 G	39495438.81	39495438.98	39495439.14	0.2688	0.0192
Mercury	103426-03-25 18:28 G	39496714.17	39496714.27	39496714.38	0.2645	0.0164
Mercury	103439-03-28 11:30 G	39501464.89	39501464.98	39501465.07	0.2649	0.1474
Mercury	103459-03-24 06:13 G	39508765.67	39508765.76	39508765.86	0.2646	0.1246
Venus	103467-05-11 12:57 G	39511735.91	39511736.04	39511736.18	0.2634	0.1326

Mercury	103468-09-27 20:09 G	39512241.20	39512241.34	39512241.49	0.2692	0.1024
Mercury	103472-03-25 23:16 G	39513516.36	39513516.47	39513516.58	0.2652	0.0189
Mercury	103485-03-28 17:01 G	39518267.13	39518267.21	39518267.28	0.2653	0.1897
Mercury	103492-03-21 17:45 G	39520817.21	39520817.24	39520817.28	0.2648	0.2468
Mercury	103501-09-26 17:59 G	39524292.14	39524292.25	39524292.36	0.2690	0.1913
Mercury	103505-03-25 11:01 G	39525567.87	39525567.96	39525568.06	0.2654	0.1002
Mercury	103514-09-30 05:01 G	39529043.60	39529043.71	39529043.82	0.2686	0.1965
Mercury	103518-03-28 04:47 G	39530318.59	39530318.70	39530318.80	0.2654	0.0718
Mercury	103531-03-30 22:18 G	39535069.37	39535069.43	39535069.48	0.2647	0.2200
Mercury	103538-03-23 22:47 G	39537619.39	39537619.45	39537619.52	0.2655	0.2114
Mercury	103547-09-28 02:23 G	39541094.45	39541094.60	39541094.75	0.2684	0.1129
Mercury	103551-03-26 16:33 G	39542370.09	39542370.19	39542370.30	0.2655	0.0553
Mercury	103564-03-28 09:49 G	39547120.81	39547120.91	39547121.01	0.2646	0.1088
Mercury	103577-03-31 02:23 G	39551871.57	39551871.60	39551871.64	0.2640	0.2483
Venus	103580-11-10 21:21 G	39553192.23	39553192.39	39553192.55	0.2701	0.0175
Mercury	103584-03-24 04:18 G	39554421.61	39554421.68	39554421.76	0.2655	0.1753
Mercury	103593-09-28 07:54 G	39557896.67	39557896.83	39557896.99	0.2677	0.0691
Mercury	103597-03-26 21:35 G	39559172.29	39559172.40	39559172.51	0.2647	0.0105
Mercury	103610-03-29 14:09 G	39563922.99	39563923.09	39563923.19	0.2641	0.1228
Mercury	103630-03-25 09:21 G	39571223.80	39571223.89	39571223.98	0.2648	0.1386
Mercury	103639-09-29 12:57 G	39574698.88	39574699.04	39574699.21	0.2680	0.0053
Mercury	103643-03-28 01:40 G	39575974.46	39575974.57	39575974.68	0.2641	0.0077
Mercury	103656-03-29 17:59 G	39580725.16	39580725.25	39580725.34	0.2644	0.1453
Mercury	103663-03-23 20:52 G	39583275.36	39583275.37	39583275.38	0.2647	0.2629
Mercury	103676-03-25 13:11 G	39588025.95	39588026.05	39588026.15	0.2643	0.1131
Mercury	103685-09-29 20:09 G	39591501.19	39591501.34	39591501.50	0.2689	0.0763
Mercury	103689-03-28 05:45 G	39592776.63	39592776.74	39592776.85	0.2646	0.0205
Mercury	103702-03-31 22:47 G	39597527.38	39597527.45	39597527.53	0.2652	0.1873
Mercury	103709-03-25 00:57 G	39600077.50	39600077.54	39600077.58	0.2645	0.2422
Venus	103710-05-13 07:11 G	39600491.64	39600491.80	39600491.96	0.2624	0.0930

Mercury	103718-09-28 17:45 G	39603552.18	39603552.24	39603552.31	0.2688	0.2418
Mercury	103722-03-27 17:30 G	39604828.13	39604828.23	39604828.33	0.2648	0.0941
Mercury	103731-10-02 05:30 G	39608303.60	39608303.73	39608303.85	0.2691	0.1667
Mercury	103735-03-30 10:47 G	39609578.85	39609578.95	39609579.05	0.2654	0.0611
Mercury	103748-04-01 04:18 G	39614329.63	39614329.68	39614329.74	0.2652	0.2253
Mercury	103755-03-26 05:01 G	39616879.65	39616879.71	39616879.78	0.2651	0.2112
Mercury	103764-09-29 03:06 G	39620354.49	39620354.63	39620354.78	0.2688	0.1257
Mercury	103768-03-27 22:33 G	39621630.34	39621630.44	39621630.55	0.2655	0.0626
Mercury	103777-10-02 13:25 G	39625106.02	39625106.06	39625106.10	0.2685	0.2568
Mercury	103781-03-30 16:18 G	39626381.08	39626381.18	39626381.27	0.2653	0.1130
Mercury	103794-04-02 09:21 G	39631131.87	39631131.89	39631131.92	0.2643	0.2545
Mercury	103801-03-27 10:18 G	39633681.85	39633681.93	39633682.01	0.2656	0.1760
Mercury	103810-10-01 10:33 G	39637156.78	39637156.94	39637157.10	0.2681	0.0656
Mercury	103814-03-30 04:04 G	39638432.56	39638432.67	39638432.78	0.2652	0.0134
Venus	103823-11-14 08:23 G	39641948.70	39641948.85	39641948.99	0.2708	0.0516
Mercury	103827-04-01 21:06 G	39643183.29	39643183.38	39643183.47	0.2644	0.1392
Venus	103831-11-12 03:21 G	39644868.59	39644868.64	39644868.69	0.2701	0.2548
Mercury	103847-03-28 15:49 G	39650484.07	39650484.16	39650484.25	0.2652	0.1379
Mercury	103856-10-01 15:21 G	39653958.97	39653959.14	39653959.31	0.2678	0.0248
Mercury	103860-03-30 08:52 G	39655234.76	39655234.87	39655234.97	0.2645	0.0273
Mercury	103873-04-02 01:11 G	39659985.46	39659985.55	39659985.63	0.2640	0.1524
Mercury	103880-03-26 03:35 G	39662535.62	39662535.65	39662535.68	0.2653	0.2519
Mercury	103893-03-28 20:23 G	39667286.25	39667286.35	39667286.45	0.2644	0.1033
Mercury	103902-10-03 20:52 G	39670761.21	39670761.37	39670761.53	0.2684	0.0470
Mercury	103906-04-01 12:42 G	39672036.92	39672037.03	39672037.13	0.2642	0.0367
Mercury	103919-04-04 05:16 G	39676787.65	39676787.72	39676787.80	0.2646	0.1841
Mercury	103926-03-28 07:54 G	39679337.78	39679337.83	39679337.88	0.2644	0.2327
Mercury	103939-03-31 00:13 G	39684088.41	39684088.51	39684088.62	0.2644	0.0804
Mercury	103948-10-04 05:01 G	39687563.58	39687563.71	39687563.85	0.2690	0.1356
Mercury	103952-04-01 17:01 G	39688839.11	39688839.21	39688839.32	0.2648	0.0549

Venus	103953-05-15 05:01 G	39689247.56	39689247.71	39689247.87	0.2636	0.0185
Venus	103961-05-12 23:59 G	39692167.46	39692167.50	39692167.54	0.2636	0.2533
Mercury	103965-04-04 10:33 G	39693589.89	39693589.94	39693589.99	0.2653	0.2286
Mercury	103972-03-28 11:59 G	39696139.93	39696140.00	39696140.06	0.2645	0.2085
Mercury	103981-10-02 02:52 G	39699614.50	39699614.62	39699614.74	0.2690	0.1727
Mercury	103985-03-31 04:47 G	39700890.59	39700890.70	39700890.80	0.2652	0.0592
Mercury	103994-10-05 14:37 G	39704366.03	39704366.11	39704366.19	0.2688	0.2316
Mercury	103998-04-02 22:18 G	39705641.33	39705641.43	39705641.53	0.2654	0.1045

105TH MILLENNIUM CE

This is a list of transits visible from Moon in the 105th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	104011-04-05 16:04 G		39710392.15	39710392.17	39710392.18	0.2651	0.2625	
Mercury	104018-03-29 16:33 G		39712942.11	39712942.19	39712942.27	0.2654	0.1734	
Mercury	104027-10-03 11:45 G		39716416.84	39716416.99	39716417.15	0.2685	0.0695	
Mercury	104031-04-01 10:04 G		39717692.82	39717692.92	39717693.03	0.2655	0.0232	
Mercury	104044-04-03 03:49 G		39722443.57	39722443.66	39722443.74	0.2650	0.1525	
Mercury	104064-03-29 21:49 G		39729744.32	39729744.41	39729744.51	0.2657	0.1367	
Venus	104066-11-15 07:40 G		39730704.67	39730704.82	39730704.98	0.2695	0.0838	
Mercury	104073-10-03 18:13 G		39733219.10	39733219.26	39733219.43	0.2677	0.0224	
Mercury	104077-04-01 15:35 G		39734495.04	39734495.15	39734495.25	0.2649	0.0281	
Mercury	104090-04-04 08:09 G		39739245.76	39739245.84	39739245.93	0.2642	0.1702	
Mercury	104097-03-28 09:49 G		39741795.87	39741795.91	39741795.94	0.2657	0.2483	

Mercury	104110-04-01 03:06 G	39746546.53	39746546.63	39746546.73	0.2650	0.1018
Mercury	104119-10-05 23:01 G	39750021.29	39750021.46	39750021.62	0.2679	0.0244
Mercury	104123-04-03 19:54 G	39751297.22	39751297.33	39751297.43	0.2642	0.0567
Mercury	104136-04-05 11:59 G	39756047.93	39756048.00	39756048.08	0.2643	0.1840
Mercury	104143-03-30 14:52 G	39758598.06	39758598.12	39758598.18	0.2650	0.2182
Mercury	104156-04-01 07:25 G	39763348.70	39763348.81	39763348.91	0.2643	0.0722
Mercury	104165-10-06 05:30 G	39766823.58	39766823.73	39766823.88	0.2688	0.1074
Mercury	104169-04-03 23:45 G	39768099.39	39768099.49	39768099.60	0.2644	0.0668
Mercury	104182-04-06 16:33 G	39772850.14	39772850.19	39772850.25	0.2649	0.2226
Mercury	104189-03-30 18:57 G	39775400.22	39775400.29	39775400.36	0.2644	0.2017
Venus	104196-05-16 11:59 G	39778003.85	39778004.00	39778004.14	0.2627	0.1353
Mercury	104198-10-04 03:06 G	39778874.55	39778874.63	39778874.72	0.2687	0.2230
Mercury	104202-04-03 11:30 G	39780150.87	39780150.98	39780151.08	0.2645	0.0480
Mercury	104211-10-08 14:09 G	39783625.99	39783626.09	39783626.20	0.2692	0.2002
Mercury	104215-04-06 04:33 G	39784901.59	39784901.69	39784901.79	0.2652	0.0948
Mercury	104235-04-01 23:01 G	39792202.38	39792202.46	39792202.54	0.2648	0.1745
Mercury	104244-10-05 12:28 G	39795676.87	39795677.02	39795677.17	0.2689	0.0980
Mercury	104248-04-03 16:18 G	39796953.07	39796953.18	39796953.29	0.2654	0.0215
Mercury	104261-04-06 09:49 G	39801703.82	39801703.91	39801704.00	0.2654	0.1470
Mercury	104281-04-02 04:04 G	39809004.58	39809004.67	39809004.76	0.2655	0.1356
Mercury	104290-10-06 20:23 G	39812479.18	39812479.35	39812479.51	0.2683	0.0201
Mercury	104294-04-04 21:49 G	39813755.30	39813755.41	39813755.51	0.2655	0.0212
Mercury	104307-04-08 15:06 G	39818506.05	39818506.13	39818506.20	0.2646	0.1872
Venus	104309-11-18 09:06 G	39819460.73	39819460.88	39819461.03	0.2708	0.0322
Mercury	104314-04-01 15:49 G	39821056.14	39821056.16	39821056.18	0.2658	0.2594
Venus	104317-11-16 06:57 G	39822380.70	39822380.79	39822380.88	0.2707	0.2129
Mercury	104327-04-04 09:35 G	39825806.80	39825806.90	39825807.00	0.2654	0.0962
Mercury	104336-10-08 01:25 G	39829281.40	39829281.56	39829281.73	0.2677	0.0167
Mercury	104340-04-06 02:37 G	39830557.51	39830557.61	39830557.72	0.2647	0.0648
Mercury	104353-04-08 19:11 G	39835308.23	39835308.30	39835308.37	0.2640	0.1995

Mercury	104360-04-01 21:21 G	39837858.32	39837858.39	39837858.45	0.2654	0.2098
Mercury	104373-04-04 14:23 G	39842609.00	39842609.10	39842609.21	0.2647	0.0654
Mercury	104382-10-09 06:42 G	39846083.62	39846083.78	39846083.94	0.2681	0.0741
Mercury	104386-04-07 06:42 G	39847359.68	39847359.78	39847359.88	0.2642	0.0847
Mercury	104399-04-09 23:16 G	39852110.41	39852110.47	39852110.53	0.2645	0.2199
Mercury	104406-04-03 01:54 G	39854660.51	39854660.58	39854660.66	0.2646	0.1860
Mercury	104415-10-07 03:49 G	39858134.62	39858134.66	39858134.70	0.2682	0.2591
Mercury	104419-04-05 18:13 G	39859411.16	39859411.26	39859411.37	0.2644	0.0404
Mercury	104428-10-09 14:23 G	39862885.98	39862886.10	39862886.22	0.2689	0.1721
Mercury	104432-04-07 10:47 G	39864161.85	39864161.95	39864162.05	0.2646	0.0979
Venus	104439-05-18 23:45 G	39866759.33	39866759.49	39866759.66	0.2632	0.0208
Mercury	104445-04-10 04:04 G	39868912.67	39868912.67	39868912.68	0.2653	0.2646
Mercury	104452-04-03 05:59 G	39871462.67	39871462.75	39871462.83	0.2645	0.1687
Mercury	104461-10-07 11:59 G	39874936.87	39874937.00	39874937.13	0.2689	0.1555
Mercury	104465-04-05 22:33 G	39876213.33	39876213.44	39876213.55	0.2649	0.0147
Mercury	104474-10-10 23:45 G	39879688.48	39879688.49	39879688.49	0.2690	0.2686
Mercury	104478-04-08 16:04 G	39880964.08	39880964.17	39880964.26	0.2654	0.1376
Mercury	104498-04-04 10:18 G	39888264.84	39888264.93	39888265.02	0.2652	0.1372
Mercury	104507-10-09 21:21 G	39891739.23	39891739.39	39891739.55	0.2686	0.0319
Mercury	104511-04-08 03:49 G	39893015.55	39893015.66	39893015.76	0.2655	0.0183
Mercury	104524-04-09 21:21 G	39897766.32	39897766.39	39897766.47	0.2653	0.1910
Mercury	104544-04-05 15:35 G	39905067.05	39905067.15	39905067.25	0.2657	0.0964
Venus	104552-11-19 18:42 G	39908217.13	39908217.28	39908217.42	0.2697	0.1004
Mercury	104553-10-10 04:18 G	39908541.52	39908541.68	39908541.85	0.2679	0.0295
Mercury	104557-04-08 09:21 G	39909817.78	39909817.89	39909817.99	0.2652	0.0617
Mercury	104570-04-11 02:09 G	39914568.54	39914568.59	39914568.65	0.2644	0.2190
Mercury	104577-04-04 03:21 G	39917118.58	39917118.64	39917118.70	0.2658	0.2152
Mercury	104590-04-06 20:52 G	39921869.27	39921869.37	39921869.48	0.2652	0.0603
Mercury	104599-10-11 09:06 G	39925343.72	39925343.88	39925344.04	0.2678	0.0599
Mercury	104603-04-10 13:54 G	39926619.98	39926620.08	39926620.18	0.2644	0.1007

Mercury	104616-04-12 06:13 G	39931370.71	39931370.76	39931370.81	0.2641	0.2285
Mercury	104623-04-06 08:37 G	39933920.78	39933920.86	39933920.94	0.2653	0.1737
Mercury	104632-10-09 05:59 G	39937394.70	39937394.75	39937394.80	0.2676	0.2529
Mercury	104636-04-08 01:25 G	39938671.45	39938671.56	39938671.67	0.2644	0.0319
Mercury	104645-10-12 14:52 G	39942145.98	39942146.12	39942146.26	0.2685	0.1301
Mercury	104649-04-10 17:45 G	39943422.14	39943422.24	39943422.34	0.2643	0.1150
Mercury	104662-04-13 10:33 G	39948172.92	39948172.94	39948172.96	0.2647	0.2585
Mercury	104669-04-06 12:57 G	39950722.95	39950723.04	39950723.13	0.2645	0.1569
Mercury	104678-10-10 12:28 G	39954196.92	39954197.02	39954197.13	0.2686	0.1987
Mercury	104682-04-09 05:16 G	39955473.62	39955473.72	39955473.83	0.2644	0.0122
Venus	104682-05-21 11:01 G	39955515.81	39955515.96	39955516.11	0.2634	0.0850
Mercury	104691-10-13 23:16 G	39958948.40	39958948.47	39958948.55	0.2690	0.2368
Mercury	104695-04-11 22:18 G	39960224.33	39960224.43	39960224.52	0.2650	0.1330
Mercury	104715-04-08 17:01 G	39967525.12	39967525.21	39967525.30	0.2646	0.1367
Mercury	104724-10-11 21:21 G	39970999.24	39970999.39	39970999.54	0.2690	0.0819
Mercury	104728-04-10 10:04 G	39972275.81	39972275.92	39972276.02	0.2653	0.0242
Mercury	104741-04-13 03:35 G	39977026.57	39977026.65	39977026.72	0.2654	0.1802
Mercury	104748-04-06 04:33 G	39979576.68	39979576.69	39979576.70	0.2649	0.2616
Mercury	104761-04-08 21:35 G	39984327.30	39984327.40	39984327.50	0.2654	0.0970
Mercury	104770-10-13 05:45 G	39987801.58	39987801.74	39987801.90	0.2684	0.0255
Mercury	104774-04-11 15:21 G	39989078.04	39989078.14	39989078.24	0.2656	0.0563
Mercury	104787-04-14 08:52 G	39993828.82	39993828.87	39993828.92	0.2649	0.2301
Mercury	104794-04-07 09:21 G	39996378.84	39996378.89	39996378.95	0.2656	0.2266
Venus	104795-11-22 11:59 G	39996972.86	39996973.00	39996973.15	0.2702	0.0666
Mercury	104807-04-10 03:06 G	40001129.53	40001129.63	40001129.74	0.2657	0.0550
Mercury	104816-10-13 11:45 G	40004603.82	40004603.99	40004604.15	0.2676	0.0667
Mercury	104820-04-11 20:37 G	40005880.26	40005880.36	40005880.46	0.2649	0.1010
Mercury	104833-04-14 13:25 G	40010631.02	40010631.06	40010631.09	0.2642	0.2502
Mercury	104840-04-07 14:52 G	40013181.04	40013181.12	40013181.21	0.2656	0.1728
Mercury	104849-10-11 08:23 G	40016654.78	40016654.85	40016654.91	0.2675	0.2448

Mercury	104853-04-10 08:23 G	40017931.74	40017931.85	40017931.95	0.2650	0.0257
Mercury	104862-10-14 16:47 G	40021406.05	40021406.20	40021406.35	0.2679	0.1068
Mercury	104866-04-13 00:57 G	40022682.44	40022682.54	40022682.63	0.2642	0.1327
Mercury	104879-04-15 17:16 G	40027433.20	40027433.22	40027433.23	0.2643	0.2614
Mercury	104886-04-08 19:54 G	40029983.24	40029983.33	40029983.42	0.2649	0.1385
Mercury	104895-10-12 13:40 G	40033456.97	40033457.07	40033457.17	0.2679	0.2129
Mercury	104899-04-11 12:28 G	40034733.91	40034734.02	40034734.13	0.2643	0.0056
Mercury	104908-10-15 23:45 G	40038208.38	40038208.49	40038208.60	0.2688	0.1988
Mercury	104912-04-14 04:47 G	40039484.61	40039484.70	40039484.79	0.2645	0.1462
Mercury	104919-04-08 07:25 G	40042034.79	40042034.81	40042034.83	0.2648	0.2592
Venus	104925-05-22 23:59 G	40044271.33	40044271.50	40044271.67	0.2627	0.0466
Mercury	104932-04-09 23:59 G	40046785.41	40046785.50	40046785.60	0.2645	0.1256
Mercury	104941-10-13 21:21 G	40050259.25	40050259.39	40050259.53	0.2687	0.1325
Mercury	104945-04-12 16:33 G	40051536.08	40051536.19	40051536.29	0.2646	0.0303
Mercury	104958-04-15 09:35 G	40056286.82	40056286.90	40056286.98	0.2653	0.1734
Mercury	104965-04-08 11:30 G	40058836.94	40058836.98	40058837.02	0.2646	0.2419
Mercury	104978-04-11 04:04 G	40063587.57	40063587.67	40063587.77	0.2650	0.1021
Mercury	104987-10-15 06:42 G	40067061.62	40067061.78	40067061.94	0.2688	0.0062
Mercury	104991-04-13 21:21 G	40068338.29	40068338.39	40068338.50	0.2654	0.0604

106TH MILLENNIUM CE

This is a list of transits visible from Moon in the 106th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
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Mercury	105004-04-16 15:06 G	40073089.07	40073089.13	40073089.18	0.2654	0.2246
Mercury	105011-04-10 15:49 G	40075639.11	40075639.16	40075639.21	0.2653	0.2271
Mercury	105024-04-12 09:06 G	40080389.78	40080389.88	40080389.99	0.2656	0.0568
Mercury	105033-10-16 14:09 G	40083863.93	40083864.09	40083864.25	0.2681	0.0788
Mercury	105037-04-15 02:52 G	40085140.52	40085140.62	40085140.72	0.2654	0.0990
Venus	105038-11-25 00:57 G	40085729.41	40085729.54	40085729.68	0.2703	0.1171
Venus	105046-11-22 17:30 G	40088649.11	40088649.23	40088649.35	0.2696	0.1753
Mercury	105057-04-10 21:06 G	40092441.30	40092441.38	40092441.45	0.2658	0.1838
Mercury	105066-10-14 11:16 G	40095914.91	40095914.97	40095915.03	0.2677	0.2456
Mercury	105070-04-13 14:52 G	40097192.01	40097192.12	40097192.22	0.2654	0.0174
Mercury	105079-10-17 18:57 G	40100666.14	40100666.29	40100666.44	0.2677	0.1044
Mercury	105083-04-16 07:54 G	40101942.74	40101942.83	40101942.92	0.2647	0.1406
Mercury	105103-04-13 02:23 G	40109243.51	40109243.60	40109243.70	0.2654	0.1319
Mercury	105112-10-15 16:04 G	40112717.06	40112717.17	40112717.28	0.2676	0.2015
Mercury	105116-04-14 19:25 G	40113994.21	40113994.31	40113994.42	0.2646	0.0140
Mercury	105125-10-19 00:28 G	40117468.39	40117468.52	40117468.66	0.2682	0.1569
Mercury	105129-04-17 11:45 G	40118744.91	40118744.99	40118745.08	0.2642	0.1627
Mercury	105136-04-10 14:09 G	40121295.07	40121295.09	40121295.11	0.2655	0.2602
Mercury	105149-04-13 06:57 G	40126045.70	40126045.79	40126045.89	0.2646	0.1073
Mercury	105158-10-16 22:04 G	40129519.29	40129519.42	40129519.55	0.2684	0.1596
Mercury	105162-04-15 23:30 G	40130796.37	40130796.48	40130796.58	0.2644	0.0362
Venus	105168-05-25 04:47 G	40133027.55	40133027.70	40133027.85	0.2638	0.0608
Mercury	105171-10-20 08:37 G	40134270.85	40134270.86	40134270.87	0.2689	0.2680
Mercury	105175-04-18 16:04 G	40135547.09	40135547.17	40135547.25	0.2647	0.1785
Venus	105176-05-22 22:18 G	40135947.35	40135947.43	40135947.51	0.2634	0.2276
Mercury	105182-04-11 18:28 G	40138097.22	40138097.27	40138097.33	0.2647	0.2265
Mercury	105195-04-14 11:01 G	40142847.86	40142847.96	40142848.06	0.2645	0.0940
Mercury	105204-10-17 06:28 G	40146321.61	40146321.77	40146321.93	0.2689	0.0628
Mercury	105208-04-16 03:35 G	40147598.55	40147598.65	40147598.76	0.2651	0.0660
Mercury	105221-04-18 21:21 G	40152349.33	40152349.39	40152349.45	0.2654	0.2162

Mercury	105228-04-11 22:33 G	40154899.38	40154899.44	40154899.50	0.2647	0.2129
Mercury	105241-04-14 15:21 G	40159650.04	40159650.14	40159650.25	0.2653	0.0623
Mercury	105250-10-18 15:35 G	40163123.99	40163124.15	40163124.30	0.2684	0.0600
Mercury	105254-04-17 08:52 G	40164400.77	40164400.87	40164400.97	0.2655	0.0983
Mercury	105274-04-13 03:06 G	40171701.56	40171701.63	40171701.71	0.2655	0.1898
Venus	105281-11-25 20:52 G	40174485.21	40174485.37	40174485.52	0.2695	0.0719
Mercury	105287-04-15 20:52 G	40176452.26	40176452.37	40176452.47	0.2657	0.0173
Mercury	105296-10-18 22:04 G	40179926.27	40179926.42	40179926.56	0.2677	0.1247
Mercury	105300-04-18 14:23 G	40181203.01	40181203.10	40181203.19	0.2651	0.1391
Mercury	105320-04-14 08:37 G	40188503.77	40188503.86	40188503.95	0.2658	0.1383
Mercury	105329-10-17 18:42 G	40191977.17	40191977.28	40191977.38	0.2674	0.2028
Mercury	105333-04-17 02:09 G	40193254.48	40193254.59	40193254.70	0.2651	0.0212
Mercury	105342-10-21 02:37 G	40196728.47	40196728.61	40196728.75	0.2678	0.1480
Mercury	105346-04-19 18:57 G	40198005.21	40198005.29	40198005.37	0.2644	0.1762
Mercury	105366-04-15 13:54 G	40205305.97	40205306.08	40205306.18	0.2652	0.0935
Mercury	105375-10-18 23:30 G	40208779.35	40208779.48	40208779.62	0.2677	0.1599
Mercury	105379-04-18 06:28 G	40210056.66	40210056.77	40210056.88	0.2643	0.0429
Mercury	105388-10-21 09:06 G	40213530.78	40213530.88	40213530.97	0.2687	0.2192
Mercury	105392-04-19 22:47 G	40214807.38	40214807.45	40214807.52	0.2644	0.1953
Mercury	105399-04-14 01:25 G	40217357.51	40217357.56	40217357.62	0.2651	0.2199
Venus	105411-05-28 05:16 G	40221783.54	40221783.72	40221783.89	0.2627	0.0459
Mercury	105412-04-16 17:59 G	40222108.15	40222108.25	40222108.35	0.2645	0.0773
Mercury	105421-10-20 06:42 G	40225581.64	40225581.78	40225581.93	0.2686	0.0990
Mercury	105425-04-19 10:33 G	40226858.83	40226858.94	40226859.04	0.2645	0.0712
Mercury	105438-04-22 03:21 G	40231609.58	40231609.64	40231609.70	0.2652	0.2155
Mercury	105445-04-15 05:30 G	40234159.66	40234159.73	40234159.81	0.2646	0.1940
Mercury	105458-04-17 22:04 G	40238910.31	40238910.42	40238910.52	0.2647	0.0617
Mercury	105467-10-21 15:49 G	40242384.00	40242384.16	40242384.32	0.2689	0.0155
Mercury	105471-04-20 15:06 G	40243661.04	40243661.13	40243661.23	0.2654	0.1053
Mercury	105484-04-22 08:37 G	40248411.85	40248411.86	40248411.88	0.2654	0.2592

Mercury	105491-04-16 09:35 G	40250961.82	40250961.90	40250961.98	0.2651	0.1813
Mercury	105504-04-19 02:52 G	40255712.51	40255712.62	40255712.73	0.2655	0.0193
Mercury	105513-10-22 23:45 G	40259186.35	40259186.49	40259186.64	0.2682	0.1204
Mercury	105517-04-21 20:37 G	40260463.27	40260463.36	40260463.45	0.2656	0.1394
Venus	105524-11-29 02:09 G	40263241.46	40263241.59	40263241.71	0.2707	0.1406
Venus	105532-11-26 23:30 G	40266161.37	40266161.48	40266161.59	0.2703	0.1783
Mercury	105537-04-17 14:37 G	40267764.02	40267764.11	40267764.20	0.2657	0.1499
Mercury	105546-10-20 21:21 G	40271237.29	40271237.39	40271237.49	0.2679	0.2135
Mercury	105550-04-20 08:23 G	40272514.75	40272514.85	40272514.96	0.2656	0.0294
Mercury	105559-10-24 05:16 G	40275988.59	40275988.72	40275988.85	0.2676	0.1617
Mercury	105563-04-23 01:40 G	40277265.49	40277265.57	40277265.65	0.2649	0.1784
Mercury	105583-04-18 20:09 G	40284566.24	40284566.34	40284566.44	0.2655	0.0955
Mercury	105592-10-21 01:40 G	40288039.44	40288039.57	40288039.70	0.2675	0.1655
Mercury	105596-04-20 13:25 G	40289316.95	40289317.06	40289317.17	0.2648	0.0561
Mercury	105605-10-24 10:18 G	40292790.82	40292790.93	40292791.04	0.2681	0.1920
Mercury	105609-04-23 05:45 G	40294067.67	40294067.74	40294067.81	0.2642	0.2038
Mercury	105616-04-16 07:54 G	40296617.78	40296617.83	40296617.89	0.2655	0.2239
Mercury	105629-04-19 00:57 G	40301368.43	40301368.54	40301368.64	0.2646	0.0588
Mercury	105638-10-22 07:40 G	40304841.67	40304841.82	40304841.97	0.2684	0.1070
Mercury	105642-04-21 17:16 G	40306119.11	40306119.22	40306119.32	0.2645	0.0698
Venus	105654-05-28 23:59 G	40310539.35	40310539.50	40310539.65	0.2639	0.0545
Mercury	105655-04-24 09:49 G	40310869.86	40310869.91	40310869.96	0.2649	0.2291
Mercury	105662-04-17 12:13 G	40313419.94	40313420.01	40313420.08	0.2646	0.1933
Mercury	105675-04-20 04:33 G	40318170.59	40318170.69	40318170.80	0.2649	0.0497
Mercury	105684-10-22 17:45 G	40321644.08	40321644.24	40321644.40	0.2686	0.0073
Mercury	105688-04-21 21:49 G	40322921.31	40322921.41	40322921.51	0.2655	0.1059
Mercury	105708-04-18 16:33 G	40330222.11	40330222.19	40330222.27	0.2657	0.1703
Mercury	105721-04-21 10:18 G	40334972.83	40334972.93	40334973.04	0.2656	0.0086
Mercury	105730-10-24 22:33 G	40338446.27	40338446.44	40338446.60	0.2676	0.0447
Mercury	105734-04-24 03:21 G	40339723.55	40339723.64	40339723.73	0.2644	0.1495

Mercury	105754-04-19 22:04 G	40347024.33	40347024.42	40347024.52	0.2648	0.1200
Mercury	105767-04-22 14:09 G	40351774.98	40351775.09	40351775.20	0.2646	0.0161
Venus	105767-12-01 08:23 G	40351997.74	40351997.85	40351997.96	0.2706	0.1791
Venus	105775-11-29 04:04 G	40354917.54	40354917.67	40354917.80	0.2697	0.1360
Mercury	105776-10-25 07:11 G	40355248.67	40355248.80	40355248.94	0.2689	0.1492
Mercury	105780-04-24 07:11 G	40356525.72	40356525.80	40356525.88	0.2653	0.1673
Mercury	105787-04-18 09:06 G	40359075.86	40359075.88	40359075.89	0.2646	0.2619
Mercury	105800-04-21 01:40 G	40363826.47	40363826.57	40363826.67	0.2653	0.1078
Mercury	105809-10-24 05:44 G	40367299.60	40367299.74	40367299.88	0.2682	0.1415
Mercury	105813-04-23 19:11 G	40368577.19	40368577.30	40368577.40	0.2656	0.0482
Mercury	105822-10-27 14:52 G	40372051.04	40372051.12	40372051.21	0.2679	0.2252
Mercury	105826-04-26 12:56 G	40373327.98	40373328.04	40373328.10	0.2653	0.2233
Mercury	105833-04-19 13:25 G	40375878.02	40375878.06	40375878.10	0.2657	0.2383
Mercury	105846-04-22 07:11 G	40380628.69	40380628.80	40380628.90	0.2658	0.0613
Mercury	105855-10-25 11:30 G	40384101.82	40384101.98	40384102.13	0.2675	0.0897
Mercury	105859-04-25 00:42 G	40385379.43	40385379.53	40385379.63	0.2650	0.0927
Mercury	105868-10-27 18:42 G	40388853.24	40388853.28	40388853.33	0.2679	0.2571
Mercury	105872-04-26 17:16 G	40390130.19	40390130.22	40390130.26	0.2643	0.2496
Mercury	105879-04-20 19:11 G	40392680.22	40392680.30	40392680.37	0.2658	0.1843
Mercury	105892-04-22 12:13 G	40397430.91	40397431.01	40397431.12	0.2648	0.0264
Venus	105897-05-31 06:56 G	40399295.64	40399295.79	40399295.93	0.2636	0.0975
Mercury	105901-10-26 16:04 G	40400904.01	40400904.17	40400904.33	0.2682	0.0634
Mercury	105905-04-26 04:47 G	40402181.60	40402181.70	40402181.80	0.2643	0.1198
Venus	105905-05-29 19:11 G	40402215.25	40402215.30	40402215.35	0.2630	0.2490
Mercury	105918-04-28 21:06 G	40406932.37	40406932.38	40406932.40	0.2646	0.2603
Mercury	105925-04-21 23:44 G	40409482.40	40409482.49	40409482.58	0.2648	0.1450
Mercury	105938-04-24 16:18 G	40414233.07	40414233.18	40414233.29	0.2644	0.0147
Mercury	105947-10-28 00:28 G	40417706.36	40417706.52	40417706.68	0.2689	0.0295
Mercury	105951-04-27 08:52 G	40418983.78	40418983.87	40418983.96	0.2650	0.1456
Mercury	105971-04-23 03:35 G	40426284.56	40426284.65	40426284.75	0.2647	0.1316

Mercury	105980-10-24 23:01 G	40429757.43	40429757.46	40429757.49	0.2687	0.2636
Mercury	105984-04-24 20:37 G	40431035.25	40431035.36	40431035.47	0.2653	0.0172
Mercury	105993-10-28 09:35 G	40434508.77	40434508.90	40434509.03	0.2683	0.1509
Mercury	105997-04-27 14:08 G	40435786.01	40435786.09	40435786.17	0.2656	0.1822

107TH MILLENNIUM CE

This is a list of transits visible from Moon in the 107th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	106004-04-20 15:06 G		40438336.11	40438336.13	40438336.16	0.2651	0.2560	
Venus	106010-12-03 04:04 G		40440753.53	40440753.67	40440753.81	0.2703	0.0918	
Mercury	106017-04-23 08:23 G		40443086.75	40443086.85	40443086.95	0.2655	0.1091	
Venus	106018-12-01 01:11 G		40443673.50	40443673.55	40443673.61	0.2706	0.2516	
Mercury	106026-10-26 07:11 G		40446559.68	40446559.80	40446559.92	0.2680	0.1815	
Mercury	106030-04-26 02:08 G		40447837.49	40447837.59	40447837.69	0.2657	0.0702	
Mercury	106039-10-29 15:06 G		40451311.03	40451311.13	40451311.23	0.2675	0.2124	
Mercury	106043-04-28 19:40 G		40452588.26	40452588.32	40452588.38	0.2649	0.2204	
Mercury	106050-04-21 20:08 G		40455138.28	40455138.34	40455138.39	0.2659	0.2219	
Mercury	106063-04-24 13:54 G		40459888.98	40459889.08	40459889.19	0.2657	0.0598	
Mercury	106072-10-26 11:44 G		40463361.85	40463361.99	40463362.13	0.2674	0.1337	
Mercury	106076-04-26 07:11 G		40464639.70	40464639.80	40464639.90	0.2649	0.1062	
Mercury	106085-10-29 19:54 G		40468113.27	40468113.33	40468113.40	0.2680	0.2426	
Mercury	106089-04-28 23:44 G		40469390.46	40469390.49	40469390.53	0.2642	0.2461	
Mercury	106096-04-22 01:40 G		40471940.50	40471940.57	40471940.65	0.2656	0.1797	

Mercury	106109-04-25 18:56 G	40476691.18	40476691.29	40476691.39	0.2648	0.0172
Mercury	106118-10-28 17:16 G	40480164.06	40480164.22	40480164.38	0.2681	0.0647
Mercury	106122-04-28 11:16 G	40481441.87	40481441.97	40481442.07	0.2643	0.1166
Venus	106140-06-01 18:13 G	40488051.10	40488051.26	40488051.42	0.2635	0.0226
Mercury	106142-04-24 06:28 G	40488742.68	40488742.77	40488742.85	0.2647	0.1507
Mercury	106155-04-26 22:47 G	40493493.34	40493493.45	40493493.55	0.2646	0.0111
Mercury	106164-10-29 02:23 G	40496966.44	40496966.60	40496966.75	0.2688	0.0330
Mercury	106168-04-28 15:20 G	40498244.05	40498244.14	40498244.23	0.2649	0.1427
Mercury	106188-04-24 10:18 G	40505544.83	40505544.93	40505545.02	0.2648	0.1260
Mercury	106201-04-28 03:06 G	40510295.52	40510295.63	40510295.74	0.2653	0.0185
Mercury	106210-10-31 11:01 G	40513768.82	40513768.96	40513769.11	0.2683	0.1186
Mercury	106214-04-30 20:52 G	40515046.30	40515046.37	40515046.44	0.2656	0.1939
Mercury	106221-04-23 21:49 G	40517596.39	40517596.41	40517596.42	0.2650	0.2600
Mercury	106234-04-26 14:52 G	40522347.02	40522347.12	40522347.22	0.2657	0.0924
Mercury	106243-10-29 08:23 G	40525819.73	40525819.85	40525819.97	0.2678	0.1808
Mercury	106247-04-29 08:37 G	40527097.76	40527097.86	40527097.97	0.2657	0.0650
Venus	106253-12-05 15:35 G	40529510.03	40529510.15	40529510.27	0.2694	0.1738
Mercury	106256-10-31 16:32 G	40530571.07	40530571.19	40530571.31	0.2676	0.1812
Mercury	106260-05-01 02:08 G	40531848.54	40531848.59	40531848.64	0.2651	0.2357
Venus	106261-12-03 03:20 G	40532429.52	40532429.64	40532429.76	0.2691	0.1782
Mercury	106267-04-25 02:37 G	40534398.55	40534398.61	40534398.67	0.2659	0.2170
Mercury	106280-04-26 20:23 G	40539149.25	40539149.35	40539149.46	0.2658	0.0550
Mercury	106289-10-29 13:25 G	40542621.93	40542622.06	40542622.20	0.2674	0.1523
Mercury	106293-04-29 13:54 G	40543899.98	40543900.08	40543900.18	0.2649	0.1134
Mercury	106302-11-02 21:06 G	40547373.31	40547373.38	40547373.46	0.2680	0.2344
Mercury	106306-05-03 06:28 G	40548650.73	40548650.77	40548650.80	0.2643	0.2502
Mercury	106313-04-26 08:08 G	40551200.76	40551200.84	40551200.93	0.2658	0.1664
Mercury	106326-04-29 01:25 G	40555951.45	40555951.56	40555951.67	0.2648	0.0204
Mercury	106335-10-31 18:42 G	40559424.13	40559424.28	40559424.43	0.2682	0.1032
Mercury	106339-05-01 17:59 G	40560702.15	40560702.25	40560702.34	0.2644	0.1350

Mercury	106359-04-27 12:56 G	40568002.95	40568003.04	40568003.13	0.2649	0.1415
Mercury	106372-04-29 05:30 G	40572753.62	40572753.73	40572753.84	0.2645	0.0100
Mercury	106381-11-01 03:06 G	40576226.47	40576226.63	40576226.79	0.2688	0.0125
Venus	106383-06-05 05:16 G	40576807.56	40576807.72	40576807.88	0.2632	0.0852
Mercury	106385-05-01 22:04 G	40577504.33	40577504.42	40577504.50	0.2650	0.1486
Mercury	106392-04-25 00:28 G	40580054.50	40580054.52	40580054.54	0.2649	0.2589
Mercury	106405-04-27 16:47 G	40584805.11	40584805.20	40584805.30	0.2647	0.1282
Mercury	106418-04-30 09:35 G	40589555.80	40589555.90	40589556.01	0.2652	0.0349
Mercury	106427-11-02 12:13 G	40593028.86	40593029.01	40593029.15	0.2684	0.1168
Mercury	106431-05-03 03:06 G	40594306.55	40594306.63	40594306.70	0.2656	0.1859
Mercury	106438-04-26 04:18 G	40596856.65	40596856.68	40596856.72	0.2650	0.2483
Mercury	106451-04-28 21:20 G	40601607.29	40601607.39	40601607.49	0.2653	0.0919
Mercury	106460-10-30 09:49 G	40605079.80	40605079.91	40605080.02	0.2681	0.1957
Mercury	106464-04-30 14:52 G	40606358.02	40606358.12	40606358.23	0.2658	0.0684
Mercury	106473-11-02 18:28 G	40609831.14	40609831.27	40609831.40	0.2676	0.1643
Mercury	106477-05-03 08:37 G	40611108.82	40611108.86	40611108.90	0.2652	0.2395
Mercury	106484-04-26 08:52 G	40613658.82	40613658.87	40613658.93	0.2657	0.2248
Venus	106496-12-06 11:16 G	40618265.83	40618265.97	40618266.10	0.2704	0.1059
Mercury	106497-04-29 02:52 G	40618409.51	40618409.62	40618409.72	0.2658	0.0438
Venus	106504-12-05 08:52 G	40621185.79	40621185.87	40621185.96	0.2705	0.2168
Mercury	106506-11-01 15:20 G	40621882.00	40621882.14	40621882.28	0.2673	0.1448
Mercury	106510-05-02 20:23 G	40623160.25	40623160.35	40623160.45	0.2653	0.1098
Mercury	106519-11-04 23:16 G	40626633.37	40626633.47	40626633.57	0.2677	0.2111
Mercury	106530-04-28 14:37 G	40630461.03	40630461.11	40630461.19	0.2659	0.1704
Mercury	106543-05-01 08:08 G	40635211.73	40635211.84	40635211.94	0.2653	0.0129
Mercury	106552-11-01 20:23 G	40638684.20	40638684.35	40638684.50	0.2677	0.1180
Mercury	106556-05-03 00:42 G	40639962.44	40639962.53	40639962.62	0.2644	0.1422
Mercury	106576-04-28 19:40 G	40647263.23	40647263.32	40647263.42	0.2651	0.1249
Mercury	106589-05-01 12:13 G	40652013.90	40652014.01	40652014.12	0.2645	0.0101
Mercury	106598-11-03 04:04 G	40655486.51	40655486.67	40655486.83	0.2686	0.0316

Mercury	106602-05-05 04:47 G	40656764.61	40656764.70	40656764.78	0.2646	0.1647
Mercury	106609-04-28 07:11 G	40659314.78	40659314.80	40659314.82	0.2650	0.2572
Mercury	106622-04-30 23:44 G	40664065.39	40664065.49	40664065.59	0.2646	0.1115
Venus	106626-06-06 17:01 G	40665563.05	40665563.21	40665563.36	0.2637	0.0542
Mercury	106635-05-03 16:04 G	40668816.07	40668816.17	40668816.28	0.2649	0.0379
Mercury	106644-11-04 13:11 G	40672288.90	40672289.05	40672289.20	0.2686	0.0964
Mercury	106648-05-05 09:35 G	40673566.83	40673566.90	40673566.97	0.2655	0.1916
Mercury	106655-04-29 11:16 G	40676116.91	40676116.97	40676117.02	0.2647	0.2315
Mercury	106668-05-01 03:49 G	40680867.56	40680867.66	40680867.76	0.2653	0.0957
Mercury	106677-11-02 11:30 G	40684339.90	40684339.98	40684340.05	0.2681	0.2328
Mercury	106681-05-03 21:20 G	40685618.28	40685618.39	40685618.49	0.2656	0.0783
Mercury	106690-11-05 20:23 G	40689091.22	40689091.35	40689091.47	0.2678	0.1714
Mercury	106694-05-06 15:06 G	40690369.08	40690369.13	40690369.18	0.2655	0.2350
Mercury	106701-04-30 15:20 G	40692919.08	40692919.14	40692919.21	0.2655	0.2137
Mercury	106714-05-03 09:06 G	40697669.77	40697669.88	40697669.98	0.2659	0.0489
Mercury	106723-11-04 17:44 G	40701142.10	40701142.24	40701142.37	0.2674	0.1492
Mercury	106727-05-06 02:52 G	40702420.53	40702420.62	40702420.72	0.2654	0.1190
Mercury	106736-11-07 00:42 G	40705893.42	40705893.53	40705893.65	0.2676	0.1932
Venus	106739-12-10 21:35 G	40707022.31	40707022.40	40707022.49	0.2693	0.2168
Mercury	106747-05-01 20:52 G	40709721.29	40709721.37	40709721.45	0.2660	0.1760
Venus	106747-12-08 09:35 G	40709941.77	40709941.90	40709942.03	0.2690	0.1672
Mercury	106760-05-03 14:37 G	40714472.00	40714472.11	40714472.21	0.2654	0.0113
Mercury	106769-11-04 21:49 G	40717944.26	40717944.41	40717944.56	0.2676	0.1128
Mercury	106773-05-06 07:40 G	40719222.73	40719222.82	40719222.91	0.2646	0.1460
Mercury	106782-11-08 06:56 G	40722695.75	40722695.79	40722695.83	0.2683	0.2581
Mercury	106793-05-02 02:08 G	40726523.50	40726523.59	40726523.69	0.2654	0.1256
Mercury	106806-05-04 18:56 G	40731274.18	40731274.29	40731274.40	0.2646	0.0250
Mercury	106815-11-06 04:47 G	40734746.55	40734746.70	40734746.86	0.2685	0.0561
Mercury	106819-05-07 11:16 G	40736024.89	40736024.97	40736025.06	0.2645	0.1680
Mercury	106826-04-30 13:54 G	40738575.05	40738575.08	40738575.10	0.2654	0.2564

Mercury	106839-05-03 06:28 G	40743325.67	40743325.77	40743325.87	0.2646	0.0967
Mercury	106852-05-04 23:01 G	40748076.35	40748076.46	40748076.56	0.2647	0.0382
Mercury	106861-11-06 14:08 G	40751548.93	40751549.09	40751549.25	0.2686	0.0538
Mercury	106865-05-07 15:49 G	40752827.09	40752827.16	40752827.23	0.2653	0.2023
Venus	106869-06-08 03:35 G	40754319.49	40754319.65	40754319.80	0.2632	0.0966
Mercury	106872-04-30 17:44 G	40755377.19	40755377.24	40755377.30	0.2648	0.2301
Mercury	106885-05-03 10:32 G	40760127.83	40760127.94	40760128.04	0.2649	0.0832
Mercury	106894-11-04 12:13 G	40763599.96	40763600.01	40763600.07	0.2684	0.2508
Mercury	106898-05-06 03:35 G	40764878.55	40764878.65	40764878.76	0.2656	0.0777
Mercury	106907-11-08 21:49 G	40768351.28	40768351.41	40768351.55	0.2678	0.1571
Mercury	106911-05-09 21:20 G	40769629.35	40769629.39	40769629.43	0.2656	0.2418
Mercury	106918-05-02 21:49 G	40772179.34	40772179.41	40772179.48	0.2653	0.2023
Mercury	106931-05-05 15:35 G	40776930.04	40776930.15	40776930.25	0.2658	0.0515
Mercury	106940-11-05 19:11 G	40780402.18	40780402.30	40780402.42	0.2675	0.1832
Mercury	106944-05-07 09:06 G	40781680.79	40781680.88	40781680.98	0.2657	0.1283
Mercury	106953-11-09 02:52 G	40785153.52	40785153.62	40785153.73	0.2675	0.2039
Mercury	106964-05-03 03:06 G	40788981.55	40788981.63	40788981.71	0.2659	0.1677
Mercury	106977-05-05 21:06 G	40793732.27	40793732.38	40793732.48	0.2657	0.0068
Venus	106982-12-11 17:30 G	40795778.10	40795778.23	40795778.37	0.2703	0.1055
Mercury	106986-11-06 23:59 G	40797204.35	40797204.50	40797204.64	0.2674	0.1276
Mercury	106990-05-08 14:08 G	40798483.00	40798483.09	40798483.18	0.2647	0.1577
Venus	106990-12-09 15:20 G	40798698.03	40798698.14	40798698.25	0.2704	0.1814
Mercury	106999-11-10 08:23 G	40801955.78	40801955.85	40801955.92	0.2683	0.2409

108TH MILLENNIUM CE

This is a list of transits visible from Moon in the 108th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	107010-05-05 08:52	G	40805783.77	40805783.87	40805783.96	0.2655	0.1269	
Mercury	107023-05-08 01:40	G	40810534.47	40810534.57	40810534.68	0.2648	0.0402	
Mercury	107032-11-08 06:13	G	40814006.60	40814006.76	40814006.92	0.2683	0.0565	
Mercury	107036-05-09 18:13	G	40815285.18	40815285.26	40815285.34	0.2644	0.1716	
Mercury	107043-05-03 20:23	G	40817835.30	40817835.35	40817835.39	0.2655	0.2432	
Mercury	107056-05-05 13:11	G	40822585.95	40822586.05	40822586.15	0.2648	0.0919	
Mercury	107069-05-08 05:30	G	40827336.63	40827336.73	40827336.84	0.2646	0.0518	
Mercury	107078-11-09 15:20	G	40830808.98	40830809.14	40830809.30	0.2687	0.0384	
Mercury	107082-05-10 22:18	G	40832087.37	40832087.43	40832087.50	0.2651	0.2029	
Mercury	107089-05-04 00:42	G	40834637.47	40834637.53	40834637.58	0.2647	0.2254	
Mercury	107102-05-07 17:01	G	40839388.11	40839388.21	40839388.32	0.2649	0.0699	
Mercury	107111-11-08 13:40	G	40842860.02	40842860.07	40842860.12	0.2684	0.2529	
Venus	107112-06-10 16:04	G	40843075.01	40843075.17	40843075.32	0.2639	0.0791	
Mercury	107115-05-10 10:04	G	40844138.82	40844138.92	40844139.02	0.2653	0.0733	
Mercury	107124-11-10 23:30	G	40847611.34	40847611.48	40847611.62	0.2681	0.1249	
Mercury	107128-05-12 03:49	G	40848889.63	40848889.66	40848889.69	0.2657	0.2530	
Mercury	107135-05-06 04:32	G	40851439.62	40851439.69	40851439.76	0.2651	0.2025	
Mercury	107148-05-07 21:49	G	40856190.30	40856190.41	40856190.51	0.2657	0.0421	
Mercury	107157-11-08 21:20	G	40859662.27	40859662.39	40859662.50	0.2676	0.1811	
Mercury	107161-05-10 15:35	G	40860941.06	40860941.15	40860941.25	0.2657	0.1255	
Mercury	107170-11-12 04:32	G	40864413.57	40864413.69	40864413.81	0.2674	0.1840	
Mercury	107181-05-06 09:35	G	40868241.81	40868241.90	40868241.99	0.2660	0.1585	
Mercury	107194-05-09 03:20	G	40872992.54	40872992.64	40872992.75	0.2658	0.0059	
Mercury	107203-11-10 01:40	G	40876464.44	40876464.57	40876464.71	0.2674	0.1531	
Mercury	107207-05-11 20:52	G	40877743.29	40877743.37	40877743.45	0.2650	0.1732	
Mercury	107216-11-12 09:49	G	40881215.84	40881215.91	40881215.97	0.2679	0.2416	

Venus	107225-12-14 03:06 G	40884534.56	40884534.63	40884534.70	0.2692	0.2414
Mercury	107227-05-07 15:06 G	40885044.03	40885044.13	40885044.23	0.2658	0.1152
Venus	107233-12-11 14:52 G	40887454.00	40887454.12	40887454.25	0.2690	0.1739
Mercury	107240-05-09 08:23 G	40889794.74	40889794.85	40889794.96	0.2649	0.0398
Mercury	107249-11-10 07:25 G	40893266.66	40893266.81	40893266.96	0.2682	0.0886
Mercury	107253-05-12 00:42 G	40894545.46	40894545.53	40894545.61	0.2644	0.1876
Mercury	107260-05-05 02:52 G	40897095.57	40897095.62	40897095.67	0.2658	0.2349
Mercury	107273-05-07 19:54 G	40901846.22	40901846.33	40901846.43	0.2648	0.0903
Mercury	107286-05-10 12:13 G	40906596.91	40906597.01	40906597.12	0.2646	0.0670
Mercury	107295-11-11 16:04 G	40910069.01	40910069.17	40910069.33	0.2687	0.0255
Mercury	107299-05-13 05:01 G	40911347.64	40911347.71	40911347.77	0.2650	0.2019
Mercury	107306-05-07 07:25 G	40913897.74	40913897.81	40913897.87	0.2649	0.2081
Mercury	107319-05-09 23:44 G	40918648.39	40918648.49	40918648.60	0.2647	0.0688
Mercury	107332-05-11 16:32 G	40923399.09	40923399.19	40923399.29	0.2654	0.0884
Mercury	107341-11-13 00:56 G	40926871.40	40926871.54	40926871.69	0.2681	0.1217
Mercury	107345-05-14 10:04 G	40928149.89	40928149.92	40928149.96	0.2656	0.2490
Mercury	107352-05-07 11:01 G	40930699.89	40930699.96	40930700.04	0.2650	0.1991
Venus	107355-06-13 01:25 G	40931831.40	40931831.56	40931831.71	0.2632	0.0865
Mercury	107365-05-10 04:18 G	40935450.57	40935450.68	40935450.78	0.2656	0.0328
Mercury	107374-11-10 22:32 G	40938922.33	40938922.44	40938922.56	0.2677	0.1861
Mercury	107378-05-12 21:49 G	40940201.32	40940201.41	40940201.51	0.2658	0.1237
Mercury	107387-11-14 06:56 G	40943673.66	40943673.79	40943673.91	0.2674	0.1664
Mercury	107398-05-08 15:49 G	40947502.08	40947502.16	40947502.25	0.2658	0.1654
Mercury	107411-05-12 09:49 G	40952252.80	40952252.91	40952253.01	0.2659	0.0141
Mercury	107420-11-12 03:49 G	40955724.52	40955724.66	40955724.79	0.2672	0.1466
Mercury	107424-05-14 03:20 G	40957003.56	40957003.64	40957003.72	0.2652	0.1700
Mercury	107433-11-15 11:16 G	40960475.88	40960475.97	40960476.07	0.2678	0.2142
Mercury	107444-05-09 21:35 G	40964304.30	40964304.40	40964304.49	0.2659	0.1095
Mercury	107457-05-12 14:52 G	40969055.02	40969055.12	40969055.23	0.2652	0.0444
Mercury	107466-11-13 09:06 G	40972526.73	40972526.88	40972527.02	0.2678	0.1128

Venus	107468-12-15 23:59 G	40973290.37	40973290.50	40973290.63	0.2702	0.1200
Mercury	107470-05-15 07:40 G	40973805.75	40973805.82	40973805.89	0.2644	0.2028
Venus	107476-12-13 21:49 G	40976210.28	40976210.41	40976210.53	0.2702	0.1389
Mercury	107477-05-08 09:06 G	40976355.84	40976355.88	40976355.93	0.2659	0.2419
Mercury	107490-05-11 02:37 G	40981106.50	40981106.61	40981106.71	0.2652	0.0720
Mercury	107503-05-14 19:11 G	40985857.19	40985857.30	40985857.40	0.2645	0.0679
Mercury	107512-11-14 17:15 G	40989329.06	40989329.22	40989329.38	0.2687	0.0111
Mercury	107516-05-16 11:44 G	40990607.93	40990607.99	40990608.04	0.2647	0.2185
Mercury	107523-05-10 13:54 G	40993158.01	40993158.08	40993158.16	0.2650	0.1978
Mercury	107536-05-12 06:27 G	40997908.67	40997908.77	40997908.88	0.2647	0.0603
Mercury	107549-05-14 23:15 G	41002659.37	41002659.47	41002659.57	0.2649	0.0986
Mercury	107558-11-16 01:54 G	41006131.44	41006131.58	41006131.73	0.2684	0.1100
Mercury	107562-05-17 16:32 G	41007410.15	41007410.19	41007410.22	0.2656	0.2473
Mercury	107569-05-10 17:59 G	41009960.17	41009960.25	41009960.33	0.2648	0.1788
Mercury	107582-05-13 10:47 G	41014710.84	41014710.95	41014711.05	0.2653	0.0376
Mercury	107591-11-14 00:27 G	41018182.42	41018182.52	41018182.61	0.2680	0.2144
Mercury	107595-05-16 04:18 G	41019461.59	41019461.68	41019461.77	0.2657	0.1349
Venus	107598-06-14 15:06 G	41020586.98	41020587.13	41020587.27	0.2640	0.0935
Mercury	107604-11-16 08:37 G	41022933.73	41022933.86	41022933.98	0.2675	0.1676
Mercury	107615-05-11 22:18 G	41026762.35	41026762.43	41026762.52	0.2657	0.1614
Mercury	107628-05-13 16:03 G	41031513.06	41031513.17	41031513.27	0.2659	0.0154
Mercury	107637-11-14 05:59 G	41034984.61	41034984.75	41034984.89	0.2673	0.1436
Mercury	107641-05-16 09:49 G	41036263.83	41036263.91	41036263.99	0.2655	0.1724
Mercury	107650-11-17 13:25 G	41039735.94	41039736.06	41039736.17	0.2675	0.1947
Mercury	107661-05-12 03:35 G	41043564.56	41043564.65	41043564.75	0.2661	0.1179
Mercury	107674-05-14 21:35 G	41048315.29	41048315.40	41048315.50	0.2654	0.0602
Mercury	107683-11-15 10:32 G	41051786.79	41051786.94	41051787.09	0.2676	0.1096
Mercury	107687-05-17 14:23 G	41053066.04	41053066.10	41053066.17	0.2647	0.2059
Mercury	107694-05-10 15:35 G	41055616.10	41055616.15	41055616.19	0.2662	0.2393
Mercury	107707-05-14 09:06 G	41060366.77	41060366.88	41060366.98	0.2654	0.0653

Venus	107711-12-19 09:49 G	41062046.86	41062046.91	41062046.95	0.2692	0.2585
Venus	107719-12-16 21:49 G	41064966.28	41064966.41	41064966.53	0.2689	0.1784
Mercury	107720-05-16 01:54 G	41065117.48	41065117.58	41065117.69	0.2647	0.0786
Mercury	107729-11-16 17:59 G	41068589.09	41068589.25	41068589.40	0.2684	0.0483
Mercury	107733-05-18 18:13 G	41069868.21	41069868.26	41069868.31	0.2645	0.2303
Mercury	107740-05-11 20:37 G	41072418.29	41072418.36	41072418.43	0.2655	0.1988
Mercury	107753-05-14 13:25 G	41077168.95	41077169.06	41077169.17	0.2647	0.0402
Mercury	107766-05-17 05:44 G	41081919.64	41081919.74	41081919.84	0.2648	0.0973
Mercury	107775-11-18 03:06 G	41085391.48	41085391.63	41085391.79	0.2685	0.0724
Mercury	107779-05-19 22:47 G	41086670.42	41086670.45	41086670.47	0.2652	0.2556
Mercury	107786-05-13 00:42 G	41089220.45	41089220.53	41089220.61	0.2648	0.1684
Mercury	107799-05-15 17:30 G	41093971.12	41093971.23	41093971.33	0.2649	0.0299
Mercury	107808-11-16 01:25 G	41097442.49	41097442.56	41097442.62	0.2682	0.2440
Mercury	107812-05-18 10:32 G	41098721.84	41098721.94	41098722.03	0.2656	0.1383
Mercury	107821-11-19 10:47 G	41102193.82	41102193.95	41102194.07	0.2678	0.1732
Mercury	107832-05-14 04:47 G	41106022.61	41106022.70	41106022.79	0.2652	0.1467
Venus	107841-06-17 00:13 G	41109343.35	41109343.51	41109343.67	0.2634	0.0710
Mercury	107845-05-16 22:18 G	41110773.32	41110773.43	41110773.54	0.2659	0.0077
Mercury	107854-11-17 08:08 G	41114244.71	41114244.84	41114244.97	0.2673	0.1663
Mercury	107858-05-19 16:03 G	41115524.09	41115524.17	41115524.25	0.2657	0.1829
Mercury	107867-11-20 15:20 G	41118996.04	41118996.14	41118996.25	0.2674	0.2027
Mercury	107878-05-15 10:03 G	41122824.82	41122824.92	41122825.02	0.2660	0.1147
Mercury	107891-05-18 03:49 G	41127575.56	41127575.66	41127575.76	0.2658	0.0634
Mercury	107900-11-18 12:42 G	41131046.88	41131047.03	41131047.18	0.2673	0.1111
Mercury	107904-05-20 21:06 G	41132326.32	41132326.38	41132326.44	0.2648	0.2126
Mercury	107911-05-14 21:35 G	41134876.35	41134876.40	41134876.45	0.2662	0.2311
Mercury	107913-11-21 20:51 G	41135798.31	41135798.37	41135798.44	0.2682	0.2427
Mercury	107924-05-16 15:35 G	41139627.05	41139627.15	41139627.25	0.2657	0.0688
Mercury	107937-05-19 08:37 G	41144377.76	41144377.86	41144377.96	0.2648	0.0957
Mercury	107946-11-19 19:11 G	41147849.14	41147849.30	41147849.46	0.2683	0.0468

Mercury	107950-05-22 01:11 G	41149128.50	41149128.55	41149128.60	0.2644	0.2339
Venus	107954-12-21 05:15 G	41150802.59	41150802.72	41150802.84	0.2700	0.1445
Mercury	107957-05-15 03:06 G	41151678.56	41151678.63	41151678.71	0.2655	0.1909
Venus	107962-12-19 02:51 G	41153722.48	41153722.62	41153722.75	0.2701	0.1084
Mercury	107970-05-17 20:08 G	41156429.23	41156429.34	41156429.45	0.2649	0.0317
Mercury	107983-05-20 12:27 G	41161179.92	41161180.02	41161180.12	0.2646	0.1053
Mercury	107992-11-20 04:03 G	41164651.52	41164651.67	41164651.83	0.2686	0.0425

109TH MILLENNIUM CE

This is a list of transits visible from Moon in the 109th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	108003-05-16 07:25 G		41168480.73	41168480.81	41168480.90	0.2649	0.1674	
Mercury	108016-05-17 23:44 G		41173231.39	41173231.49	41173231.60	0.2649	0.0164	
Mercury	108025-11-18 03:06 G		41176702.55	41176702.63	41176702.70	0.2683	0.2368	
Mercury	108029-05-20 17:01 G		41177982.12	41177982.21	41177982.30	0.2654	0.1344	
Mercury	108038-11-21 11:59 G		41181453.87	41181454.00	41181454.14	0.2678	0.1365	
Mercury	108049-05-16 11:15 G		41185282.88	41185282.97	41185283.07	0.2653	0.1436	
Mercury	108062-05-19 04:32 G		41190033.59	41190033.69	41190033.80	0.2657	0.0155	
Mercury	108071-11-19 09:49 G		41193504.79	41193504.91	41193505.03	0.2675	0.1796	
Mercury	108075-05-21 22:32 G		41194784.37	41194784.44	41194784.52	0.2658	0.1900	
Venus	108084-06-17 14:08 G		41198098.94	41198099.09	41198099.23	0.2642	0.0923	
Mercury	108084-11-21 17:01 G		41198256.10	41198256.21	41198256.32	0.2673	0.1951	
Mercury	108095-05-17 16:18 G		41202085.08	41202085.18	41202085.28	0.2660	0.1015	

Mercury	108108-05-20 10:18 G	41206835.83	41206835.93	41206836.04	0.2657	0.0596
Mercury	108117-11-20 14:23 G	41210306.96	41210307.10	41210307.23	0.2673	0.1465
Mercury	108121-05-23 03:49 G	41211586.60	41211586.66	41211586.71	0.2651	0.2294
Mercury	108128-05-16 04:03 G	41214136.62	41214136.67	41214136.72	0.2662	0.2298
Mercury	108130-11-23 22:32 G	41215058.37	41215058.44	41215058.50	0.2678	0.2445
Mercury	108141-05-18 21:49 G	41218887.30	41218887.41	41218887.51	0.2659	0.0655
Mercury	108154-05-21 15:20 G	41223638.04	41223638.14	41223638.24	0.2653	0.1074
Mercury	108163-11-21 20:08 G	41227109.19	41227109.34	41227109.50	0.2677	0.0654
Mercury	108167-05-24 08:08 G	41228388.80	41228388.84	41228388.88	0.2645	0.2456
Mercury	108174-05-17 09:20 G	41230938.81	41230938.89	41230938.96	0.2662	0.1863
Mercury	108187-05-20 02:51 G	41235689.51	41235689.62	41235689.73	0.2654	0.0264
Venus	108197-12-22 16:47 G	41239559.13	41239559.20	41239559.27	0.2698	0.2353
Mercury	108200-05-22 19:54 G	41240440.23	41240440.33	41240440.42	0.2648	0.1302
Venus	108205-12-21 08:51 G	41242478.73	41242478.87	41242479.02	0.2691	0.1118
Mercury	108209-11-23 03:35 G	41243911.49	41243911.65	41243911.81	0.2683	0.0029
Mercury	108220-05-18 14:23 G	41247741.01	41247741.10	41247741.19	0.2656	0.1563
Mercury	108233-05-21 07:25 G	41252491.70	41252491.81	41252491.92	0.2649	0.0143
Mercury	108246-05-23 23:59 G	41257242.41	41257242.50	41257242.59	0.2646	0.1467
Mercury	108255-11-24 11:59 G	41260713.86	41260714.00	41260714.15	0.2686	0.0945
Mercury	108266-05-19 18:56 G	41264543.19	41264543.29	41264543.39	0.2650	0.1175
Mercury	108279-05-22 11:44 G	41269293.88	41269293.99	41269294.10	0.2647	0.0275
Mercury	108288-11-21 10:03 G	41272764.83	41272764.92	41272765.01	0.2684	0.2187
Mercury	108292-05-24 04:18 G	41274044.60	41274044.68	41274044.76	0.2648	0.1824
Mercury	108299-05-18 06:27 G	41276594.74	41276594.77	41276594.81	0.2652	0.2497
Mercury	108301-11-25 20:08 G	41277516.24	41277516.34	41277516.44	0.2685	0.2095
Mercury	108312-05-20 23:15 G	41281345.37	41281345.47	41281345.57	0.2647	0.0904
Mercury	108325-05-23 15:49 G	41286096.05	41286096.16	41286096.27	0.2650	0.0493
Venus	108327-06-21 16:03 G	41286855.02	41286855.17	41286855.32	0.2644	0.0759
Mercury	108334-11-23 18:27 G	41289567.12	41289567.27	41289567.41	0.2682	0.1181
Mercury	108338-05-26 09:06 G	41290846.81	41290846.88	41290846.94	0.2654	0.2117

Mercury	108345-05-19 10:47 G	41293396.88	41293396.95	41293397.01	0.2649	0.2165
Mercury	108358-05-22 03:20 G	41298147.54	41298147.64	41298147.75	0.2651	0.0771
Mercury	108371-05-24 20:37 G	41302898.26	41302898.36	41302898.46	0.2655	0.0924
Mercury	108380-11-24 01:39 G	41306369.40	41306369.57	41306369.73	0.2677	0.0231
Mercury	108384-05-26 14:23 G	41307649.06	41307649.10	41307649.13	0.2658	0.2483
Mercury	108391-05-20 14:51 G	41310199.05	41310199.12	41310199.20	0.2651	0.1958
Mercury	108404-05-22 08:08 G	41314949.73	41314949.84	41314949.95	0.2657	0.0388
Mercury	108417-05-25 01:54 G	41319700.48	41319700.58	41319700.67	0.2659	0.1263
Mercury	108426-11-25 07:11 G	41323171.63	41323171.80	41323171.96	0.2673	0.0144
Mercury	108437-05-20 19:39 G	41327001.24	41327001.32	41327001.40	0.2658	0.1708
Venus	108440-12-24 19:39 G	41328315.26	41328315.32	41328315.37	0.2692	0.2521
Venus	108448-12-22 08:23 G	41331234.71	41331234.85	41331234.98	0.2687	0.1533
Mercury	108450-05-23 13:25 G	41331751.95	41331752.06	41331752.16	0.2660	0.0118
Mercury	108463-05-26 07:11 G	41336502.72	41336502.80	41336502.88	0.2656	0.1674
Mercury	108472-11-25 12:13 G	41339973.85	41339974.01	41339974.17	0.2674	0.0586
Mercury	108483-05-22 00:56 G	41343803.44	41343803.54	41343803.63	0.2662	0.1201
Mercury	108496-05-23 18:42 G	41348554.17	41348554.28	41348554.39	0.2657	0.0420
Mercury	108505-11-24 10:18 G	41352024.88	41352024.93	41352024.98	0.2673	0.2516
Mercury	108509-05-27 11:59 G	41353304.94	41353305.00	41353305.06	0.2651	0.2128
Mercury	108516-05-20 12:27 G	41355854.99	41355855.02	41355855.04	0.2662	0.2556
Mercury	108518-11-27 18:27 G	41356776.13	41356776.27	41356776.40	0.2679	0.1429
Mercury	108529-05-23 06:13 G	41360605.66	41360605.76	41360605.86	0.2660	0.0782
Mercury	108542-05-25 23:44 G	41365356.38	41365356.49	41365356.59	0.2651	0.0810
Mercury	108551-11-25 16:47 G	41368827.08	41368827.20	41368827.31	0.2679	0.1794
Mercury	108555-05-28 16:18 G	41370107.13	41370107.18	41370107.23	0.2646	0.2305
Mercury	108562-05-21 17:44 G	41372657.17	41372657.24	41372657.31	0.2661	0.2019
Mercury	108564-11-28 02:08 G	41373578.50	41373578.59	41373578.69	0.2685	0.2158
Venus	108570-06-22 20:51 G	41375611.21	41375611.37	41375611.52	0.2643	0.0323
Mercury	108575-05-24 11:15 G	41377407.86	41377407.97	41377408.07	0.2654	0.0507
Mercury	108588-05-26 04:03 G	41382158.57	41382158.67	41382158.77	0.2648	0.1157

Mercury	108597-11-25 23:59 G	41385629.35	41385629.50	41385629.65	0.2683	0.0895
Mercury	108601-05-29 20:37 G	41386909.33	41386909.36	41386909.39	0.2645	0.2502
Mercury	108608-05-22 22:32 G	41389459.36	41389459.44	41389459.53	0.2658	0.1745
Mercury	108621-05-25 15:49 G	41394210.05	41394210.16	41394210.26	0.2649	0.0140
Mercury	108634-05-28 08:23 G	41398960.76	41398960.85	41398960.94	0.2646	0.1301
Mercury	108643-11-28 08:08 G	41402431.68	41402431.84	41402431.99	0.2685	0.0165
Mercury	108654-05-24 03:20 G	41406261.55	41406261.64	41406261.73	0.2652	0.1402
Mercury	108667-05-26 20:08 G	41411012.23	41411012.34	41411012.45	0.2647	0.0136
Mercury	108680-05-28 12:42 G	41415762.94	41415763.03	41415763.11	0.2648	0.1610
Venus	108683-12-27 22:32 G	41417071.38	41417071.44	41417071.50	0.2693	0.2458
Mercury	108689-11-28 16:03 G	41419234.02	41419234.17	41419234.32	0.2685	0.0926
Venus	108691-12-25 12:13 G	41419990.86	41419991.01	41419991.15	0.2687	0.1199
Mercury	108700-05-25 07:39 G	41423063.72	41423063.82	41423063.92	0.2649	0.1042
Mercury	108713-05-28 00:27 G	41427814.41	41427814.52	41427814.62	0.2648	0.0346
Mercury	108722-11-27 14:23 G	41431285.02	41431285.10	41431285.18	0.2682	0.2307
Mercury	108726-05-30 17:15 G	41432565.15	41432565.22	41432565.29	0.2652	0.1941
Mercury	108733-05-23 19:11 G	41435115.25	41435115.30	41435115.35	0.2650	0.2346
Mercury	108735-11-30 23:44 G	41436036.37	41436036.49	41436036.61	0.2680	0.1793
Mercury	108746-05-26 11:59 G	41439865.89	41439866.00	41439866.10	0.2649	0.0915
Mercury	108759-05-29 04:47 G	41444616.60	41444616.70	41444616.81	0.2655	0.0708
Mercury	108768-11-27 21:49 G	41448087.27	41448087.41	41448087.55	0.2676	0.1270
Mercury	108772-05-30 22:32 G	41449367.38	41449367.44	41449367.49	0.2658	0.2270
Mercury	108779-05-24 23:15 G	41451917.41	41451917.47	41451917.53	0.2651	0.2110
Mercury	108781-12-01 05:30 G	41452838.64	41452838.73	41452838.82	0.2674	0.2220
Mercury	108792-05-26 16:18 G	41456668.08	41456668.18	41456668.29	0.2656	0.0634
Mercury	108805-05-29 10:03 G	41461418.82	41461418.92	41461419.01	0.2659	0.1086
Venus	108813-06-24 20:37 G	41464367.20	41464367.36	41464367.51	0.2644	0.0357
Mercury	108814-11-29 03:35 G	41464889.50	41464889.65	41464889.81	0.2672	0.0771
Mercury	108825-05-25 03:49 G	41468719.59	41468719.66	41468719.73	0.2656	0.1920
Mercury	108838-05-27 21:35 G	41473470.29	41473470.40	41473470.51	0.2661	0.0127

Mercury	108851-05-30 15:35 G	41478221.06	41478221.15	41478221.24	0.2657	0.1468
Mercury	108860-11-29 08:23 G	41481691.69	41481691.85	41481692.01	0.2674	0.0487
Mercury	108871-05-26 09:06 G	41485521.79	41485521.88	41485521.97	0.2662	0.1455
Mercury	108884-05-28 02:51 G	41490272.52	41490272.62	41490272.73	0.2659	0.0270
Mercury	108897-05-30 20:23 G	41495023.28	41495023.35	41495023.43	0.2650	0.1892
Mercury	108906-12-01 14:51 G	41498493.96	41498494.12	41498494.28	0.2680	0.0335
Mercury	108917-05-27 14:23 G	41502324.00	41502324.10	41502324.20	0.2660	0.0937
Venus	108926-12-29 19:25 G	41505827.22	41505827.31	41505827.40	0.2687	0.2246
Mercury	108930-05-30 07:54 G	41507074.72	41507074.83	41507074.94	0.2651	0.0560
Venus	108934-12-27 08:08 G	41508746.74	41508746.84	41508746.94	0.2690	0.2053
Mercury	108943-06-02 00:42 G	41511825.47	41511825.53	41511825.59	0.2646	0.2165
Mercury	108950-05-26 01:54 G	41514375.53	41514375.58	41514375.64	0.2660	0.2261
Mercury	108952-12-01 22:47 G	41515296.31	41515296.45	41515296.59	0.2685	0.1292
Mercury	108963-05-28 19:25 G	41519126.20	41519126.31	41519126.41	0.2653	0.0671
Mercury	108976-05-30 12:13 G	41523876.90	41523877.01	41523877.11	0.2647	0.0909
Mercury	108985-11-29 21:20 G	41527347.27	41527347.39	41527347.51	0.2684	0.1768
Mercury	108989-06-02 04:32 G	41528627.64	41528627.69	41528627.75	0.2648	0.2287
Mercury	108996-05-26 06:56 G	41531177.71	41531177.79	41531177.86	0.2654	0.1847
Mercury	108998-12-03 07:39 G	41532098.73	41532098.82	41532098.91	0.2683	0.2184

110TH MILLENNIUM CE

This is a list of transits visible from Moon in the 110th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
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Mercury	109009-05-29 23:30 G	41535928.37	41535928.48	41535928.59	0.2648	0.0457
Mercury	109022-06-01 16:18 G	41540679.08	41540679.18	41540679.28	0.2649	0.1121
Mercury	109031-12-02 05:59 G	41544149.60	41544149.75	41544149.90	0.2681	0.0774
Mercury	109035-06-04 09:20 G	41545429.87	41545429.89	41545429.90	0.2654	0.2622
Mercury	109042-05-28 11:01 G	41547979.88	41547979.96	41547980.05	0.2650	0.1701
Mercury	109055-05-31 03:49 G	41552730.55	41552730.66	41552730.77	0.2649	0.0095
Venus	109056-06-26 21:35 G	41553123.23	41553123.40	41553123.56	0.2636	0.0170
Mercury	109068-06-01 20:51 G	41557481.28	41557481.37	41557481.46	0.2654	0.1336
Mercury	109077-12-02 13:11 G	41560951.89	41560952.05	41560952.21	0.2678	0.0157
Mercury	109088-05-28 15:20 G	41564782.05	41564782.14	41564782.24	0.2650	0.1396
Mercury	109101-06-01 08:23 G	41569532.74	41569532.85	41569532.96	0.2652	0.0139
Mercury	109114-06-04 01:39 G	41574283.49	41574283.57	41574283.65	0.2657	0.1801
Mercury	109123-12-04 19:54 G	41577754.17	41577754.33	41577754.48	0.2675	0.0794
Mercury	109134-05-30 19:54 G	41581584.23	41581584.33	41581584.43	0.2651	0.1074
Mercury	109147-06-02 13:11 G	41586334.94	41586335.05	41586335.16	0.2656	0.0465
Mercury	109156-12-01 18:27 G	41589805.20	41589805.27	41589805.34	0.2674	0.2387
Mercury	109160-06-04 06:42 G	41591085.72	41591085.78	41591085.84	0.2658	0.2104
Mercury	109167-05-29 07:25 G	41593635.76	41593635.81	41593635.86	0.2652	0.2299
Mercury	109169-12-05 02:08 G	41594556.45	41594556.59	41594556.73	0.2674	0.1271
Venus	109169-12-31 23:44 G	41594583.40	41594583.49	41594583.57	0.2687	0.2261
Venus	109177-12-29 12:13 G	41597502.89	41597503.01	41597503.13	0.2688	0.1775
Mercury	109180-05-31 00:42 G	41598386.42	41598386.53	41598386.63	0.2654	0.0847
Mercury	109193-06-02 17:59 G	41603137.15	41603137.25	41603137.36	0.2659	0.0905
Mercury	109202-12-03 00:27 G	41606607.40	41606607.52	41606607.65	0.2671	0.1633
Mercury	109206-06-05 11:59 G	41607887.97	41607888.00	41607888.03	0.2658	0.2516
Mercury	109213-05-29 11:58 G	41610437.94	41610438.00	41610438.07	0.2656	0.2101
Mercury	109215-12-06 06:56 G	41611358.67	41611358.79	41611358.92	0.2673	0.1680
Mercury	109226-06-01 05:44 G	41615188.64	41615188.74	41615188.85	0.2661	0.0363
Mercury	109239-06-03 23:44 G	41619939.39	41619939.49	41619939.58	0.2659	0.1288
Mercury	109248-12-03 05:01 G	41623409.58	41623409.71	41623409.85	0.2673	0.1405

Mercury	109259-05-30 17:15 G	41627240.14	41627240.22	41627240.31	0.2662	0.1699
Mercury	109261-12-06 12:56 G	41628160.98	41628161.04	41628161.10	0.2680	0.2465
Mercury	109272-06-01 11:15 G	41631990.86	41631990.97	41631991.08	0.2659	0.0134
Mercury	109285-06-04 04:32 G	41636741.61	41636741.69	41636741.78	0.2649	0.1627
Mercury	109294-12-04 11:30 G	41640211.83	41640211.98	41640212.14	0.2682	0.0780
Venus	109299-06-28 19:10 G	41641879.13	41641879.30	41641879.47	0.2635	0.0371
Mercury	109305-05-31 23:01 G	41644042.36	41644042.46	41644042.55	0.2658	0.1147
Mercury	109318-06-03 16:03 G	41648793.06	41648793.17	41648793.28	0.2650	0.0379
Mercury	109331-06-06 08:37 G	41653543.79	41653543.86	41653543.93	0.2646	0.1932
Mercury	109338-05-30 10:18 G	41656093.90	41656093.93	41656093.97	0.2658	0.2502
Mercury	109340-12-05 20:08 G	41657014.19	41657014.34	41657014.50	0.2685	0.0429
Mercury	109351-06-02 03:34 G	41660844.54	41660844.65	41660844.75	0.2651	0.0811
Mercury	109364-06-03 19:54 G	41665595.23	41665595.33	41665595.44	0.2648	0.0554
Mercury	109377-06-06 12:56 G	41670345.98	41670346.04	41670346.10	0.2653	0.2180
Mercury	109384-05-30 14:51 G	41672896.05	41672896.12	41672896.18	0.2651	0.2134
Mercury	109386-12-07 04:18 G	41673816.54	41673816.68	41673816.82	0.2677	0.1377
Mercury	109397-06-02 07:10 G	41677646.70	41677646.80	41677646.91	0.2651	0.0717
Mercury	109410-06-06 00:27 G	41682397.42	41682397.52	41682397.62	0.2655	0.0932
Venus	109413-01-02 22:32 G	41683339.38	41683339.44	41683339.50	0.2699	0.2439
Mercury	109419-12-06 02:37 G	41685867.49	41685867.61	41685867.74	0.2674	0.1727
Venus	109420-12-31 20:08 G	41686259.20	41686259.34	41686259.48	0.2699	0.0865
Mercury	109423-06-08 18:13 G	41687148.23	41687148.26	41687148.29	0.2659	0.2523
Mercury	109430-06-01 18:42 G	41689698.20	41689698.28	41689698.35	0.2653	0.1919
Mercury	109432-12-08 09:49 G	41690618.78	41690618.91	41690619.03	0.2672	0.1707
Mercury	109443-06-04 11:58 G	41694448.89	41694449.00	41694449.10	0.2658	0.0436
Mercury	109456-06-06 05:58 G	41699199.66	41699199.75	41699199.84	0.2660	0.1407
Mercury	109465-12-06 07:10 G	41702669.66	41702669.80	41702669.95	0.2670	0.1294
Mercury	109476-06-01 23:30 G	41706500.40	41706500.48	41706500.56	0.2662	0.1649
Mercury	109478-12-09 14:37 G	41707421.02	41707421.11	41707421.21	0.2678	0.2154
Mercury	109489-06-04 17:30 G	41711251.12	41711251.23	41711251.34	0.2660	0.0148

Mercury	109502-06-08 11:15 G	41716001.89	41716001.97	41716002.05	0.2654	0.1734
Mercury	109511-12-08 12:56 G	41719471.89	41719472.04	41719472.19	0.2678	0.0907
Mercury	109522-06-04 05:01 G	41723302.62	41723302.71	41723302.81	0.2661	0.1200
Venus	109534-07-03 19:39 G	41727715.26	41727715.32	41727715.39	0.2638	0.2381
Mercury	109535-06-06 22:46 G	41728053.34	41728053.45	41728053.55	0.2652	0.0583
Venus	109542-07-01 11:58 G	41730634.85	41730635.00	41730635.15	0.2645	0.0590
Mercury	109548-06-08 15:20 G	41732804.07	41732804.14	41732804.21	0.2647	0.1933
Mercury	109555-06-02 16:46 G	41735354.15	41735354.20	41735354.24	0.2661	0.2406
Mercury	109557-12-08 21:49 G	41736274.25	41736274.41	41736274.57	0.2684	0.0088
Mercury	109568-06-04 10:03 G	41740104.81	41740104.92	41740105.02	0.2651	0.0775
Mercury	109581-06-07 02:37 G	41744855.51	41744855.61	41744855.72	0.2648	0.0692
Mercury	109594-06-09 19:25 G	41749606.25	41749606.31	41749606.36	0.2651	0.2235
Mercury	109601-06-02 21:20 G	41752156.32	41752156.39	41752156.45	0.2652	0.2138
Mercury	109603-12-10 06:13 G	41753076.62	41753076.76	41753076.90	0.2679	0.1232
Mercury	109614-06-05 13:54 G	41756906.97	41756907.08	41756907.19	0.2649	0.0523
Mercury	109627-06-08 06:56 G	41761657.69	41761657.79	41761657.89	0.2655	0.0888
Mercury	109636-12-07 04:32 G	41765127.59	41765127.69	41765127.80	0.2674	0.2004
Mercury	109647-06-04 01:10 G	41768958.47	41768958.55	41768958.62	0.2652	0.1902
Mercury	109649-12-10 11:30 G	41769878.86	41769878.98	41769879.10	0.2672	0.1766
Venus	109656-01-05 07:39 G	41772095.75	41772095.82	41772095.89	0.2687	0.2430
Mercury	109660-06-05 18:27 G	41773709.16	41773709.27	41773709.38	0.2658	0.0306
Venus	109664-01-02 18:42 G	41775015.14	41775015.28	41775015.43	0.2685	0.1230
Mercury	109673-06-08 12:13 G	41778459.92	41778460.01	41778460.10	0.2660	0.1416
Mercury	109682-12-08 09:20 G	41781929.76	41781929.89	41781930.03	0.2670	0.1450
Mercury	109693-06-04 05:58 G	41785760.66	41785760.75	41785760.83	0.2660	0.1513
Mercury	109695-12-11 16:18 G	41786681.08	41786681.18	41786681.28	0.2676	0.2043
Mercury	109706-06-07 23:58 G	41790511.39	41790511.50	41790511.61	0.2662	0.0107
Mercury	109719-06-10 17:44 G	41795262.17	41795262.24	41795262.31	0.2653	0.1910
Mercury	109728-12-09 14:37 G	41798731.96	41798732.11	41798732.26	0.2678	0.0876
Mercury	109739-06-06 11:30 G	41802562.89	41802562.98	41802563.08	0.2662	0.1060

Mercury	109752-06-08 05:15 G	41807313.61	41807313.72	41807313.82	0.2654	0.0594
Mercury	109765-06-10 22:03 G	41812064.35	41812064.42	41812064.48	0.2646	0.2079
Mercury	109772-06-03 23:01 G	41814614.41	41814614.46	41814614.52	0.2661	0.2281
Mercury	109774-12-10 23:01 G	41815534.30	41815534.46	41815534.62	0.2684	0.0037
Mercury	109785-06-06 16:32 G	41819365.09	41819365.19	41819365.30	0.2654	0.0753
Venus	109785-07-02 17:30 G	41819391.06	41819391.23	41819391.40	0.2635	0.0675
Mercury	109798-06-09 09:06 G	41824115.78	41824115.88	41824115.99	0.2647	0.0860
Mercury	109811-06-13 01:54 G	41828866.52	41828866.58	41828866.64	0.2651	0.2229
Mercury	109818-06-06 03:49 G	41831416.59	41831416.66	41831416.73	0.2652	0.1974
Mercury	109820-12-12 07:54 G	41832336.68	41832336.83	41832336.98	0.2679	0.0911
Mercury	109831-06-08 20:22 G	41836167.25	41836167.35	41836167.46	0.2650	0.0537
Mercury	109844-06-10 13:25 G	41840917.96	41840918.06	41840918.16	0.2653	0.1025
Mercury	109853-12-10 06:27 G	41844387.66	41844387.77	41844387.87	0.2675	0.1989
Mercury	109864-06-06 07:39 G	41848218.75	41848218.82	41848218.90	0.2652	0.1863
Mercury	109866-12-13 13:25 G	41849138.93	41849139.06	41849139.19	0.2671	0.1587
Mercury	109877-06-09 00:42 G	41852969.43	41852969.53	41852969.64	0.2657	0.0212
Mercury	109890-06-11 18:42 G	41857720.19	41857720.28	41857720.37	0.2661	0.1412
Mercury	109899-12-11 11:15 G	41861189.84	41861189.97	41861190.09	0.2669	0.1698
Venus	109907-01-06 03:20 G	41863771.50	41863771.64	41863771.79	0.2697	0.0682
Mercury	109910-06-08 12:27 G	41865020.93	41865021.02	41865021.10	0.2661	0.1541
Mercury	109912-12-14 17:58 G	41865941.15	41865941.25	41865941.35	0.2676	0.2073
Mercury	109923-06-11 06:27 G	41869771.66	41869771.77	41869771.88	0.2661	0.0264
Mercury	109936-06-13 00:13 G	41874522.43	41874522.51	41874522.58	0.2656	0.1915
Mercury	109945-12-12 16:32 G	41877992.05	41877992.19	41877992.33	0.2676	0.1135
Mercury	109956-06-08 17:58 G	41881823.15	41881823.25	41881823.35	0.2662	0.0965
Mercury	109969-06-11 11:44 G	41886573.88	41886573.99	41886574.10	0.2654	0.0610
Mercury	109982-06-14 04:18 G	41891324.63	41891324.68	41891324.74	0.2647	0.2211
Mercury	109989-06-07 05:30 G	41893874.68	41893874.73	41893874.78	0.2662	0.2320
Mercury	109991-12-14 00:56 G	41894794.38	41894794.54	41894794.70	0.2684	0.0024

111TH MILLENNIUM CE

This is a list of transits visible from Moon in the 111th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	110002-06-09 23:01	G	41898625.35	41898625.46	41898625.57	0.2652	0.0584	
Mercury	110015-06-12 15:49	G	41903376.05	41903376.16	41903376.26	0.2648	0.0850	
Venus	110020-07-06 19:39	G	41905227.26	41905227.32	41905227.39	0.2644	0.2391	
Mercury	110028-06-14 08:22	G	41908126.81	41908126.85	41908126.89	0.2651	0.2387	
Venus	110028-07-04 14:51	G	41908146.97	41908147.12	41908147.27	0.2648	0.0331	
Mercury	110035-06-08 10:18	G	41910676.85	41910676.93	41910677.00	0.2652	0.1902	
Mercury	110037-12-14 09:20	G	41911596.75	41911596.89	41911597.04	0.2679	0.0958	
Mercury	110048-06-10 02:51	G	41915427.52	41915427.62	41915427.73	0.2649	0.0485	
Mercury	110061-06-12 19:54	G	41920178.23	41920178.33	41920178.42	0.2656	0.1143	
Mercury	110070-12-12 08:08	G	41923647.74	41923647.84	41923647.94	0.2673	0.2078	
Mercury	110081-06-08 14:08	G	41927479.00	41927479.09	41927479.17	0.2653	0.1710	
Mercury	110083-12-15 14:22	G	41928398.96	41928399.10	41928399.25	0.2671	0.1274	
Mercury	110094-06-11 07:25	G	41932229.70	41932229.81	41932229.92	0.2659	0.0204	
Mercury	110107-06-15 01:10	G	41936980.47	41936980.55	41936980.64	0.2661	0.1611	
Mercury	110116-12-13 12:42	G	41940449.90	41940450.03	41940450.15	0.2670	0.1665	
Mercury	110127-06-10 18:56	G	41944281.20	41944281.29	41944281.38	0.2661	0.1437	
Mercury	110129-12-16 19:25	G	41945201.19	41945201.31	41945201.44	0.2677	0.1696	
Mercury	110140-06-12 12:56	G	41949031.94	41949032.04	41949032.15	0.2662	0.0370	
Venus	110142-01-09 07:39	G	41949607.71	41949607.82	41949607.93	0.2685	0.1993	
Venus	110150-01-06 21:06	G	41952527.25	41952527.38	41952527.51	0.2690	0.1512	

Mercury	110153-06-15 06:42 G	41953782.71	41953782.78	41953782.85	0.2652	0.1976
Mercury	110160-06-08 06:27 G	41956332.75	41956332.77	41956332.78	0.2664	0.2623
Mercury	110162-12-14 18:27 G	41957252.13	41957252.27	41957252.41	0.2680	0.1215
Mercury	110173-06-11 00:42 G	41961083.43	41961083.53	41961083.63	0.2660	0.0964
Mercury	110186-06-13 17:58 G	41965834.15	41965834.25	41965834.36	0.2652	0.0771
Mercury	110199-06-16 10:46 G	41970584.89	41970584.95	41970585.01	0.2647	0.2141
Mercury	110206-06-10 12:13 G	41973134.94	41973135.01	41973135.07	0.2659	0.2146
Mercury	110208-12-16 03:20 G	41974054.49	41974054.64	41974054.80	0.2683	0.0244
Mercury	110219-06-13 05:15 G	41977885.61	41977885.72	41977885.83	0.2651	0.0582
Mercury	110232-06-14 21:49 G	41982636.31	41982636.41	41982636.51	0.2649	0.0888
Mercury	110245-06-17 14:51 G	41987387.08	41987387.12	41987387.16	0.2656	0.2443
Mercury	110252-06-10 16:32 G	41989937.11	41989937.19	41989937.26	0.2651	0.1969
Mercury	110254-12-17 11:01 G	41990856.80	41990856.96	41990857.11	0.2673	0.0680
Mercury	110265-06-13 09:06 G	41994687.77	41994687.88	41994687.99	0.2653	0.0376
Venus	110271-07-07 09:20 G	41996902.74	41996902.89	41996903.03	0.2640	0.1366
Mercury	110278-06-16 02:37 G	41999438.51	41999438.61	41999438.70	0.2658	0.1156
Mercury	110287-12-15 09:06 G	42002907.82	42002907.88	42002907.94	0.2670	0.2453
Mercury	110298-06-11 20:22 G	42006739.27	42006739.35	42006739.43	0.2657	0.1763
Mercury	110300-12-18 15:20 G	42007659.00	42007659.14	42007659.29	0.2671	0.1193
Mercury	110311-06-15 14:08 G	42011489.98	42011490.09	42011490.20	0.2661	0.0069
Mercury	110324-06-17 08:22 G	42016240.76	42016240.85	42016240.93	0.2659	0.1688
Mercury	110333-12-16 13:25 G	42019709.97	42019710.06	42019710.15	0.2672	0.2130
Mercury	110344-06-13 01:39 G	42023541.48	42023541.57	42023541.67	0.2664	0.1239
Mercury	110346-12-19 21:34 G	42024461.29	42024461.40	42024461.52	0.2682	0.1817
Mercury	110357-06-15 19:54 G	42028292.22	42028292.33	42028292.44	0.2657	0.0440
Mercury	110370-06-18 12:56 G	42033042.98	42033043.04	42033043.11	0.2650	0.2095
Mercury	110377-06-11 13:25 G	42035593.04	42035593.06	42035593.09	0.2664	0.2573
Mercury	110379-12-17 21:06 G	42036512.24	42036512.38	42036512.52	0.2682	0.1135
Mercury	110390-06-14 07:10 G	42040343.70	42040343.80	42040343.91	0.2656	0.0750
Venus	110393-01-09 07:10 G	42041283.64	42041283.80	42041283.96	0.2685	0.0380

Mercury	110403-06-17 00:13 G	42045094.41	42045094.51	42045094.62	0.2649	0.0687
Mercury	110416-06-18 16:46 G	42049845.14	42049845.20	42049845.25	0.2650	0.2250
Mercury	110423-06-12 18:27 G	42052395.21	42052395.27	42052395.34	0.2656	0.2094
Mercury	110425-12-18 06:13 G	42053314.60	42053314.76	42053314.92	0.2679	0.0032
Mercury	110436-06-14 11:15 G	42057145.86	42057145.97	42057146.08	0.2649	0.0607
Mercury	110449-06-17 04:03 G	42061896.57	42061896.67	42061896.77	0.2654	0.0932
Mercury	110462-06-19 21:34 G	42066647.37	42066647.40	42066647.43	0.2658	0.2538
Mercury	110469-06-12 22:18 G	42069197.35	42069197.43	42069197.50	0.2653	0.1883
Mercury	110471-12-19 11:58 G	42070116.84	42070117.00	42070117.16	0.2671	0.0461
Mercury	110482-06-15 15:34 G	42073948.04	42073948.15	42073948.25	0.2656	0.0422
Mercury	110495-06-18 09:20 G	42078698.80	42078698.89	42078698.98	0.2661	0.1404
Mercury	110504-12-17 10:03 G	42082167.87	42082167.92	42082167.98	0.2668	0.2498
Venus	110514-07-09 19:10 G	42085659.13	42085659.30	42085659.46	0.2639	0.0345
Mercury	110515-06-15 02:51 G	42085999.53	42085999.62	42085999.70	0.2660	0.1642
Mercury	110517-12-20 16:18 G	42086919.03	42086919.18	42086919.33	0.2675	0.0710
Mercury	110528-06-16 21:06 G	42090750.27	42090750.38	42090750.49	0.2663	0.0131
Mercury	110541-06-19 14:51 G	42095501.04	42095501.12	42095501.20	0.2657	0.1812
Mercury	110550-12-18 15:20 G	42098970.04	42098970.14	42098970.23	0.2676	0.2110
Mercury	110561-06-15 08:37 G	42102801.76	42102801.86	42102801.95	0.2663	0.1192
Mercury	110563-12-21 23:44 G	42103721.37	42103721.49	42103721.61	0.2683	0.1673
Mercury	110574-06-18 02:22 G	42107552.49	42107552.60	42107552.70	0.2657	0.0621
Mercury	110587-06-20 19:25 G	42112303.24	42112303.31	42112303.38	0.2648	0.2032
Mercury	110594-06-13 19:54 G	42114853.29	42114853.33	42114853.37	0.2664	0.2429
Mercury	110596-12-18 23:01 G	42115772.33	42115772.46	42115772.60	0.2683	0.1391
Mercury	110607-06-17 13:54 G	42119603.97	42119604.08	42119604.18	0.2657	0.0730
Mercury	110620-06-19 06:42 G	42124354.68	42124354.78	42124354.89	0.2650	0.0823
Venus	110628-01-14 09:49 G	42127119.80	42127119.91	42127120.02	0.2692	0.1881
Mercury	110633-06-21 23:30 G	42129105.43	42129105.48	42129105.53	0.2648	0.2344
Venus	110636-01-12 05:30 G	42130039.60	42130039.73	42130039.86	0.2696	0.1241
Mercury	110640-06-15 00:56 G	42131655.48	42131655.54	42131655.61	0.2657	0.2090

Mercury	110642-12-21 07:25 G	42132574.66	42132574.81	42132574.97	0.2681	0.0284
Mercury	110653-06-17 18:13 G	42136406.15	42136406.26	42136406.37	0.2651	0.0397
Mercury	110666-06-20 10:46 G	42141156.85	42141156.95	42141157.05	0.2649	0.0980
Mercury	110686-06-16 05:30 G	42148457.64	42148457.73	42148457.81	0.2651	0.1730
Mercury	110688-12-21 14:22 G	42149376.95	42149377.10	42149377.26	0.2673	0.0592
Mercury	110699-06-18 22:03 G	42153208.31	42153208.42	42153208.53	0.2652	0.0270
Mercury	110712-06-21 15:20 G	42157959.05	42157959.14	42157959.23	0.2656	0.1379
Mercury	110721-12-20 13:25 G	42161428.00	42161428.06	42161428.12	0.2671	0.2484
Mercury	110732-06-17 09:20 G	42165259.80	42165259.89	42165259.98	0.2654	0.1489
Mercury	110734-12-23 19:39 G	42166179.17	42166179.32	42166179.47	0.2670	0.0897
Mercury	110745-06-20 02:37 G	42170010.51	42170010.61	42170010.72	0.2659	0.0112
Venus	110757-07-11 08:37 G	42174414.74	42174414.86	42174414.99	0.2642	0.1648
Mercury	110758-06-22 20:51 G	42174761.29	42174761.37	42174761.44	0.2661	0.1863
Mercury	110767-12-21 17:58 G	42178230.15	42178230.25	42178230.35	0.2669	0.2008
Mercury	110778-06-18 14:08 G	42182062.00	42182062.09	42182062.19	0.2662	0.1228
Mercury	110780-12-24 00:56 G	42182981.40	42182981.54	42182981.67	0.2677	0.1336
Mercury	110791-06-21 08:22 G	42186812.74	42186812.85	42186812.95	0.2662	0.0580
Mercury	110804-06-23 02:08 G	42191563.53	42191563.59	42191563.65	0.2656	0.2198
Mercury	110811-06-17 01:39 G	42194113.53	42194113.57	42194113.61	0.2664	0.2423
Mercury	110813-12-21 23:44 G	42195032.37	42195032.49	42195032.62	0.2676	0.1600
Mercury	110824-06-18 19:39 G	42198864.22	42198864.32	42198864.43	0.2663	0.0783
Mercury	110826-12-25 08:37 G	42199783.79	42199783.86	42199783.93	0.2684	0.2408
Mercury	110837-06-21 13:39 G	42203614.97	42203615.07	42203615.17	0.2655	0.1035
Mercury	110850-06-24 06:27 G	42208365.74	42208365.77	42208365.81	0.2648	0.2458
Mercury	110857-06-17 07:10 G	42210915.73	42210915.80	42210915.87	0.2664	0.2025
Mercury	110859-12-23 08:08 G	42211834.69	42211834.84	42211834.99	0.2683	0.0687
Mercury	110870-06-20 00:56 G	42215666.43	42215666.54	42215666.65	0.2655	0.0289
Venus	110879-01-13 14:37 G	42218795.95	42218796.11	42218796.27	0.2686	0.0465
Mercury	110883-06-22 17:58 G	42220417.15	42220417.25	42220417.34	0.2649	0.1188
Mercury	110903-06-19 12:13 G	42227717.93	42227718.01	42227718.09	0.2656	0.1664

Mercury	110905-12-24 16:32 G	42228637.03	42228637.19	42228637.34	0.2679	0.0460
Mercury	110916-06-21 05:01 G	42232468.60	42232468.71	42232468.82	0.2650	0.0095
Mercury	110929-06-23 21:49 G	42237219.32	42237219.41	42237219.50	0.2652	0.1378
Mercury	110938-12-22 15:49 G	42240688.14	42240688.16	42240688.18	0.2675	0.2650
Mercury	110949-06-19 16:18 G	42244520.08	42244520.18	42244520.27	0.2651	0.1368
Mercury	110951-12-25 22:32 G	42245439.30	42245439.44	42245439.59	0.2672	0.1084
Mercury	110962-06-22 09:20 G	42249270.78	42249270.89	42249271.00	0.2654	0.0156
Mercury	110975-06-25 02:37 G	42254021.54	42254021.61	42254021.69	0.2659	0.1849
Mercury	110984-12-22 21:34 G	42257490.29	42257490.40	42257490.51	0.2669	0.1907
Mercury	110995-06-20 20:22 G	42261322.25	42261322.35	42261322.45	0.2656	0.1108
Mercury	110997-12-26 03:20 G	42262241.50	42262241.64	42262241.78	0.2671	0.1326
Venus	111000-07-13 18:27 G	42263171.11	42263171.27	42263171.42	0.2649	0.0090

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This is a list of transits visible from Moon in the 112th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	111008-06-23 14:08 G	42266072.99	42266073.09	42266073.20	0.2662	0.0501		
Mercury	111021-06-26 08:22 G	42270823.80	42270823.85	42270823.90	0.2660	0.2307		
Mercury	111028-06-19 07:39 G	42273373.78	42273373.82	42273373.86	0.2659	0.2428		
Mercury	111030-12-25 01:54 G	42274292.45	42274292.58	42274292.72	0.2672	0.1515		
Mercury	111041-06-22 01:39 G	42278124.47	42278124.57	42278124.68	0.2663	0.0777		
Mercury	111043-12-28 09:20 G	42279043.79	42279043.89	42279044.00	0.2678	0.1991		
Mercury	111054-06-24 19:54 G	42282875.23	42282875.33	42282875.42	0.2661	0.1066		

Mercury	111067-06-27 13:25 G	42287626.05	42287626.06	42287626.08	0.2652	0.2602
Mercury	111074-06-20 12:56 G	42290175.97	42290176.04	42290176.11	0.2665	0.1995
Mercury	111076-12-25 08:37 G	42291094.72	42291094.86	42291095.01	0.2679	0.1003
Mercury	111087-06-23 07:10 G	42294926.69	42294926.80	42294926.91	0.2662	0.0303
Mercury	111100-06-26 00:42 G	42299677.44	42299677.53	42299677.63	0.2652	0.1414
Venus	111114-01-18 17:01 G	42304632.13	42304632.21	42304632.29	0.2683	0.2323
Mercury	111120-06-21 18:42 G	42306978.19	42306978.28	42306978.36	0.2661	0.1582
Venus	111122-01-16 06:27 G	42307551.62	42307551.77	42307551.91	0.2688	0.0999
Mercury	111122-12-27 17:15 G	42307897.07	42307897.22	42307897.38	0.2682	0.0089
Mercury	111133-06-24 11:58 G	42311728.89	42311729.00	42311729.11	0.2653	0.0173
Mercury	111146-06-27 05:01 G	42316479.62	42316479.71	42316479.79	0.2648	0.1547
Mercury	111166-06-22 23:15 G	42323780.38	42323780.47	42323780.57	0.2654	0.1233
Mercury	111168-12-28 01:25 G	42324699.41	42324699.56	42324699.70	0.2676	0.1128
Mercury	111179-06-25 16:03 G	42328531.06	42328531.17	42328531.28	0.2650	0.0325
Mercury	111192-06-27 09:06 G	42333281.80	42333281.88	42333281.96	0.2654	0.1827
Mercury	111199-06-21 10:18 G	42335831.91	42335831.93	42335831.96	0.2653	0.2587
Mercury	111201-12-26 00:27 G	42336750.42	42336750.52	42336750.62	0.2672	0.2033
Mercury	111212-06-23 03:06 G	42340582.53	42340582.63	42340582.74	0.2653	0.0978
Mercury	111214-12-29 06:42 G	42341501.65	42341501.78	42341501.91	0.2670	0.1580
Mercury	111225-06-25 20:22 G	42345333.25	42345333.35	42345333.46	0.2656	0.0507
Mercury	111238-06-28 14:08 G	42350084.04	42350084.09	42350084.14	0.2661	0.2327
Venus	111243-07-15 12:56 G	42351926.89	42351927.04	42351927.19	0.2638	0.1172
Mercury	111245-06-21 14:22 G	42352634.05	42352634.10	42352634.15	0.2654	0.2364
Mercury	111247-12-27 05:15 G	42353552.59	42353552.72	42353552.86	0.2668	0.1402
Mercury	111258-06-24 07:39 G	42357384.72	42357384.82	42357384.93	0.2659	0.0707
Mercury	111260-12-29 11:30 G	42358303.86	42358303.98	42358304.09	0.2674	0.1836
Mercury	111271-06-27 01:54 G	42362135.47	42362135.58	42362135.68	0.2662	0.1000
Mercury	111291-06-22 18:56 G	42369436.22	42369436.29	42369436.36	0.2662	0.1972
Mercury	111293-12-27 10:32 G	42370354.79	42370354.94	42370355.08	0.2673	0.0991
Mercury	111304-06-25 13:10 G	42374186.94	42374187.05	42374187.16	0.2663	0.0333

Mercury	111306-12-31 18:13 G	42375106.25	42375106.26	42375106.27	0.2682	0.2671
Mercury	111317-06-28 07:10 G	42378937.71	42378937.80	42378937.89	0.2659	0.1536
Mercury	111337-06-24 00:27 G	42386238.43	42386238.52	42386238.61	0.2665	0.1555
Mercury	111339-12-29 17:58 G	42387157.10	42387157.25	42387157.40	0.2682	0.0311
Mercury	111350-06-26 18:42 G	42390989.17	42390989.28	42390989.39	0.2659	0.0186
Venus	111357-01-19 21:20 G	42393388.35	42393388.39	42393388.44	0.2696	0.2532
Mercury	111363-06-29 11:58 G	42395739.92	42395740.00	42395740.08	0.2651	0.1777
Venus	111365-01-17 18:27 G	42396308.12	42396308.27	42396308.42	0.2693	0.0597
Mercury	111383-06-25 05:58 G	42403040.65	42403040.75	42403040.85	0.2659	0.1170
Mercury	111385-12-30 02:22 G	42403959.45	42403959.60	42403959.75	0.2682	0.0776
Mercury	111396-06-26 23:15 G	42407791.36	42407791.47	42407791.57	0.2652	0.0561
Mercury	111409-06-30 15:49 G	42412542.08	42412542.16	42412542.23	0.2649	0.1908
Mercury	111416-06-23 17:01 G	42415092.17	42415092.21	42415092.26	0.2660	0.2409
Mercury	111418-12-29 02:08 G	42416010.51	42416010.59	42416010.68	0.2678	0.2188
Mercury	111429-06-26 10:18 G	42419842.83	42419842.93	42419843.04	0.2652	0.0824
Mercury	111432-01-01 09:34 G	42420761.78	42420761.90	42420762.02	0.2673	0.1692
Mercury	111442-06-29 03:06 G	42424593.52	42424593.63	42424593.74	0.2652	0.0686
Mercury	111455-07-01 20:08 G	42429344.29	42429344.34	42429344.40	0.2655	0.2287
Mercury	111462-06-24 21:20 G	42431894.33	42431894.39	42431894.45	0.2653	0.2213
Mercury	111464-12-29 08:51 G	42432812.73	42432812.87	42432813.00	0.2671	0.1382
Mercury	111475-06-27 14:22 G	42436644.99	42436645.10	42436645.21	0.2653	0.0549
Mercury	111478-01-01 14:37 G	42437564.01	42437564.11	42437564.22	0.2669	0.2023
Venus	111478-07-19 18:42 G	42437763.24	42437763.28	42437763.32	0.2646	0.2551
Venus	111486-07-17 12:42 G	42440682.90	42440683.03	42440683.16	0.2652	0.1307
Mercury	111488-06-29 07:39 G	42441395.72	42441395.82	42441395.92	0.2659	0.0926
Mercury	111508-06-26 01:25 G	42448696.49	42448696.56	42448696.64	0.2655	0.1933
Mercury	111510-12-31 13:25 G	42449614.91	42449615.06	42449615.21	0.2669	0.0888
Mercury	111521-06-28 18:56 G	42453447.19	42453447.29	42453447.40	0.2662	0.0304
Mercury	111524-01-03 19:54 G	42454366.27	42454366.33	42454366.40	0.2675	0.2433
Mercury	111534-07-01 13:10 G	42458197.96	42458198.05	42458198.14	0.2662	0.1479

Mercury	111554-06-27 06:13 G	42465498.68	42465498.76	42465498.85	0.2663	0.1528
Mercury	111556-12-31 18:56 G	42466417.13	42466417.29	42466417.44	0.2674	0.0481
Mercury	111567-06-30 00:27 G	42470249.41	42470249.52	42470249.63	0.2664	0.0120
Mercury	111580-07-01 18:27 G	42475000.20	42475000.27	42475000.35	0.2656	0.1968
Mercury	111600-06-27 11:58 G	42482300.90	42482301.00	42482301.10	0.2665	0.1110
Mercury	111603-01-02 02:51 G	42483219.47	42483219.62	42483219.78	0.2682	0.0363
Venus	111608-01-20 15:34 G	42485063.99	42485064.15	42485064.31	0.2681	0.0901
Mercury	111613-06-30 05:44 G	42487051.64	42487051.74	42487051.85	0.2657	0.0645
Mercury	111626-07-02 23:01 G	42491802.40	42491802.46	42491802.53	0.2650	0.2147
Mercury	111633-06-25 23:15 G	42494352.42	42494352.47	42494352.52	0.2665	0.2337
Mercury	111635-12-31 02:37 G	42495270.55	42495270.61	42495270.67	0.2680	0.2427
Mercury	111646-06-28 17:01 G	42499103.11	42499103.21	42499103.32	0.2658	0.0739
Mercury	111649-01-02 11:30 G	42500021.85	42500021.98	42500022.11	0.2680	0.1508
Mercury	111659-07-01 10:18 G	42503853.82	42503853.93	42503854.03	0.2650	0.0942
Mercury	111672-07-03 02:51 G	42508604.58	42508604.62	42508604.67	0.2651	0.2336
Mercury	111679-06-27 04:18 G	42511154.61	42511154.68	42511154.75	0.2658	0.2016
Mercury	111681-12-31 11:15 G	42512072.84	42512072.97	42512073.09	0.2676	0.1536
Mercury	111692-06-28 21:20 G	42515905.28	42515905.39	42515905.50	0.2651	0.0412
Mercury	111695-01-03 18:13 G	42516824.18	42516824.26	42516824.34	0.2673	0.2261
Mercury	111705-07-02 14:22 G	42520655.99	42520656.10	42520656.20	0.2652	0.1063
Mercury	111725-06-28 08:22 G	42527956.77	42527956.85	42527956.93	0.2653	0.1798
Mercury	111728-01-02 17:15 G	42528875.07	42528875.22	42528875.37	0.2669	0.0742
Venus	111729-07-19 19:54 G	42529439.16	42529439.33	42529439.49	0.2643	0.0065
Mercury	111738-07-01 01:25 G	42532707.45	42532707.56	42532707.67	0.2654	0.0164
Mercury	111741-01-04 22:46 G	42533626.39	42533626.45	42533626.50	0.2670	0.2494
Mercury	111751-07-03 18:56 G	42537458.20	42537458.29	42537458.39	0.2660	0.1395
Mercury	111771-06-29 12:27 G	42544758.93	42544759.02	42544759.11	0.2657	0.1499
Mercury	111774-01-02 21:49 G	42545677.25	42545677.41	42545677.56	0.2670	0.0344
Mercury	111784-07-01 06:13 G	42549509.66	42549509.76	42549509.87	0.2662	0.0159
Mercury	111797-07-04 00:27 G	42554260.45	42554260.52	42554260.59	0.2663	0.1956

Mercury	111817-06-30 17:30 G	42561561.13	42561561.23	42561561.33	0.2663	0.1114
Mercury	111820-01-05 03:34 G	42562479.50	42562479.65	42562479.81	0.2677	0.0108
Mercury	111830-07-03 11:58 G	42566311.89	42566312.00	42566312.11	0.2663	0.0606
Venus	111843-01-24 21:06 G	42570900.29	42570900.38	42570900.47	0.2687	0.2209
Mercury	111843-07-06 05:44 G	42571062.69	42571062.74	42571062.79	0.2656	0.2354
Mercury	111850-06-29 04:46 G	42573612.66	42573612.70	42573612.74	0.2666	0.2416
Venus	111851-01-22 14:51 G	42573819.98	42573820.12	42573820.27	0.2691	0.0780
Mercury	111853-01-02 03:34 G	42574530.61	42574530.65	42574530.68	0.2678	0.2583
Mercury	111863-07-01 23:15 G	42578363.37	42578363.47	42578363.58	0.2663	0.0688
Mercury	111866-01-05 11:44 G	42579281.85	42579281.99	42579282.13	0.2682	0.1041
Mercury	111876-07-03 17:01 G	42583114.11	42583114.21	42583114.31	0.2657	0.1111
Mercury	111889-07-06 10:03 G	42587864.89	42587864.92	42587864.95	0.2648	0.2519
Mercury	111896-06-29 10:18 G	42590414.86	42590414.93	42590415.01	0.2664	0.1927
Mercury	111899-01-03 11:44 G	42591332.88	42591332.99	42591333.10	0.2681	0.1822
Mercury	111909-07-03 04:18 G	42595165.57	42595165.68	42595165.79	0.2656	0.0284
Mercury	111912-01-07 20:08 G	42596084.25	42596084.34	42596084.43	0.2678	0.2176
Mercury	111922-07-05 21:20 G	42599916.29	42599916.39	42599916.48	0.2650	0.1302
Mercury	111942-07-01 15:20 G	42607217.06	42607217.14	42607217.23	0.2656	0.1632
Mercury	111945-01-04 19:39 G	42608135.18	42608135.32	42608135.47	0.2675	0.0900
Mercury	111955-07-04 08:22 G	42611967.74	42611967.85	42611967.97	0.2652	0.0120
Venus	111964-07-24 00:13 G	42615275.43	42615275.51	42615275.59	0.2639	0.2328
Mercury	111968-07-06 01:25 G	42616718.47	42616718.56	42616718.65	0.2652	0.1442
Venus	111972-07-21 10:03 G	42618194.79	42618194.92	42618195.05	0.2644	0.1586
Mercury	111988-07-01 19:39 G	42624019.22	42624019.32	42624019.41	0.2652	0.1354
Mercury	111991-01-06 01:25 G	42624937.40	42624937.56	42624937.72	0.2668	0.0172

113TH MILLENNIUM CE

This is a list of transits visible from Moon in the 113th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	112001-07-04 12:27	G	42628769.91	42628770.02	42628770.13	0.2656	0.0247	
Mercury	112014-07-07 06:13	G	42633520.69	42633520.76	42633520.84	0.2660	0.1878	
Mercury	112034-07-02 23:44	G	42640821.39	42640821.49	42640821.59	0.2658	0.1043	
Mercury	112037-01-06 06:13	G	42641739.61	42641739.76	42641739.92	0.2669	0.0203	
Mercury	112047-07-05 17:30	G	42645572.12	42645572.23	42645572.34	0.2662	0.0523	
Mercury	112060-07-07 11:44	G	42650322.95	42650322.99	42650323.04	0.2662	0.2422	
Mercury	112067-07-01 10:46	G	42652872.91	42652872.95	42652873.00	0.2659	0.2437	
Mercury	112070-01-04 05:30	G	42653790.72	42653790.73	42653790.75	0.2669	0.2656	
Mercury	112080-07-03 04:46	G	42657623.60	42657623.70	42657623.81	0.2665	0.0705	
Mercury	112083-01-07 12:27	G	42658541.87	42658542.02	42658542.17	0.2678	0.0690	
Mercury	112093-07-05 23:15	G	42662374.37	42662374.47	42662374.57	0.2662	0.1085	
Venus	112094-01-24 01:39	G	42662576.42	42662576.57	42662576.73	0.2687	0.0271	
Mercury	112113-07-02 16:18	G	42669675.10	42669675.18	42669675.25	0.2666	0.1941	
Mercury	112116-01-06 12:13	G	42670592.91	42670593.01	42670593.11	0.2677	0.2051	
Mercury	112126-07-05 10:32	G	42674425.83	42674425.94	42674426.05	0.2664	0.0278	
Mercury	112129-01-08 20:37	G	42675344.25	42675344.36	42675344.48	0.2683	0.1760	
Mercury	112139-07-08 04:18	G	42679176.59	42679176.68	42679176.77	0.2655	0.1543	
Mercury	112159-07-03 21:49	G	42686477.32	42686477.41	42686477.50	0.2665	0.1529	
Mercury	112162-01-06 20:51	G	42687395.23	42687395.37	42687395.51	0.2680	0.1184	
Mercury	112172-07-05 15:34	G	42691228.04	42691228.15	42691228.26	0.2655	0.0205	
Mercury	112185-07-08 08:37	G	42695978.77	42695978.86	42695978.94	0.2650	0.1688	
Mercury	112205-07-05 02:37	G	42703279.51	42703279.61	42703279.71	0.2656	0.1210	

Venus	112207-07-26 20:37 G	42704031.30	42704031.36	42704031.43	0.2650	0.2417
Mercury	112208-01-09 04:32 G	42704197.53	42704197.69	42704197.84	0.2675	0.0205
Venus	112215-07-24 16:32 G	42706951.05	42706951.19	42706951.32	0.2653	0.1214
Mercury	112218-07-07 19:39 G	42708030.21	42708030.32	42708030.43	0.2651	0.0462
Mercury	112231-07-10 12:27 G	42712780.95	42712781.02	42712781.10	0.2654	0.1872
Mercury	112238-07-03 13:39 G	42715331.04	42715331.07	42715331.11	0.2657	0.2497
Mercury	112251-07-06 06:42 G	42720081.67	42720081.78	42720081.88	0.2652	0.0914
Mercury	112254-01-09 09:49 G	42720999.75	42720999.91	42721000.07	0.2668	0.0395
Mercury	112264-07-07 23:44 G	42724832.38	42724832.49	42724832.60	0.2656	0.0609
Mercury	112277-07-10 17:30 G	42729583.18	42729583.23	42729583.28	0.2660	0.2350
Mercury	112284-07-03 17:44 G	42732133.19	42732133.24	42732133.29	0.2655	0.2334
Mercury	112287-01-07 09:34 G	42733050.85	42733050.90	42733050.94	0.2666	0.2550
Mercury	112297-07-06 11:01 G	42736883.85	42736883.96	42736884.06	0.2657	0.0622
Mercury	112300-01-10 14:37 G	42737801.96	42737802.11	42737802.27	0.2670	0.0674
Mercury	112310-07-10 04:46 G	42741634.60	42741634.70	42741634.81	0.2663	0.0994
Mercury	112330-07-05 22:03 G	42748935.35	42748935.42	42748935.49	0.2660	0.1970
Mercury	112333-01-08 14:08 G	42749852.99	42749853.09	42749853.19	0.2671	0.2066
Venus	112337-01-26 18:56 G	42751332.15	42751332.29	42751332.44	0.2679	0.1363
Mercury	112343-07-08 16:18 G	42753686.07	42753686.18	42753686.28	0.2665	0.0299
Mercury	112346-01-11 21:06 G	42754604.25	42754604.38	42754604.52	0.2678	0.1322
Mercury	112356-07-10 10:18 G	42758436.85	42758436.93	42758437.02	0.2662	0.1566
Mercury	112376-07-06 03:20 G	42765737.55	42765737.64	42765737.73	0.2666	0.1522
Mercury	112379-01-09 21:06 G	42766655.25	42766655.38	42766655.51	0.2678	0.1505
Mercury	112389-07-08 21:49 G	42770488.30	42770488.41	42770488.52	0.2663	0.0204
Mercury	112392-01-13 05:44 G	42771406.69	42771406.74	42771406.79	0.2682	0.2494
Mercury	112402-07-11 15:20 G	42775239.07	42775239.14	42775239.22	0.2654	0.1933
Mercury	112422-07-07 09:06 G	42782539.78	42782539.88	42782539.98	0.2663	0.1106
Mercury	112425-01-10 05:44 G	42783457.59	42783457.74	42783457.89	0.2679	0.0532
Mercury	112435-07-10 02:37 G	42787290.50	42787290.61	42787290.72	0.2655	0.0650
Mercury	112448-07-11 19:39 G	42792041.25	42792041.32	42792041.39	0.2649	0.2068

Mercury	112455-07-05 20:08 G	42794591.29	42794591.34	42794591.39	0.2663	0.2348
Venus	112458-07-25 19:39 G	42795707.15	42795707.32	42795707.49	0.2642	0.0364
Mercury	112468-07-07 13:54 G	42799341.97	42799342.08	42799342.18	0.2656	0.0744
Mercury	112471-01-11 13:10 G	42800259.90	42800260.05	42800260.20	0.2673	0.0480
Mercury	112481-07-10 06:42 G	42804092.68	42804092.78	42804092.89	0.2651	0.0841
Mercury	112494-07-12 23:44 G	42808843.44	42808843.49	42808843.54	0.2654	0.2350
Mercury	112501-07-07 00:42 G	42811393.47	42811393.53	42811393.60	0.2655	0.2111
Mercury	112504-01-10 12:56 G	42812311.00	42812311.04	42812311.08	0.2669	0.2556
Mercury	112514-07-09 17:44 G	42816144.13	42816144.24	42816144.35	0.2653	0.0465
Mercury	112517-01-12 18:27 G	42817062.12	42817062.27	42817062.42	0.2668	0.0947
Mercury	112527-07-12 11:01 G	42820894.86	42820894.96	42820895.06	0.2656	0.1006
Mercury	112547-07-08 04:46 G	42828195.62	42828195.70	42828195.78	0.2655	0.1871
Mercury	112550-01-10 17:58 G	42829113.14	42829113.25	42829113.36	0.2666	0.1923
Mercury	112560-07-09 22:03 G	42832946.31	42832946.42	42832946.53	0.2659	0.0230
Mercury	112563-01-13 23:15 G	42833864.33	42833864.47	42833864.61	0.2672	0.1207
Venus	112572-01-31 03:20 G	42837168.58	42837168.64	42837168.70	0.2689	0.2431
Mercury	112573-07-12 16:18 G	42837697.09	42837697.18	42837697.27	0.2663	0.1487
Venus	112580-01-28 23:15 G	42840088.33	42840088.47	42840088.62	0.2692	0.0523
Mercury	112593-07-08 09:20 G	42844997.80	42844997.89	42844997.98	0.2662	0.1505
Mercury	112596-01-11 23:01 G	42845915.33	42845915.46	42845915.59	0.2671	0.1492
Mercury	112606-07-12 03:34 G	42849748.54	42849748.65	42849748.75	0.2664	0.0176
Mercury	112609-01-15 05:58 G	42850666.65	42850666.75	42850666.85	0.2680	0.2004
Mercury	112619-07-14 21:49 G	42854499.34	42854499.41	42854499.48	0.2662	0.2037
Mercury	112639-07-10 14:37 G	42861800.01	42861800.11	42861800.21	0.2667	0.1103
Mercury	112642-01-13 06:13 G	42862717.62	42862717.76	42862717.91	0.2680	0.0865
Mercury	112652-07-12 09:05 G	42866550.78	42866550.88	42866550.99	0.2661	0.0681
Mercury	112665-07-15 02:37 G	42871301.56	42871301.61	42871301.66	0.2654	0.2306
Mercury	112672-07-08 01:53 G	42873851.53	42873851.58	42873851.63	0.2668	0.2355
Mercury	112685-07-10 20:08 G	42878602.24	42878602.34	42878602.45	0.2662	0.0692
Mercury	112688-01-14 14:37 G	42879519.95	42879520.11	42879520.26	0.2680	0.0174

Venus	112693-07-29 21:34 G	42881543.28	42881543.40	42881543.52	0.2643	0.1816
Mercury	112698-07-13 13:53 G	42883352.98	42883353.08	42883353.18	0.2654	0.1090
Venus	112701-07-28 10:46 G	42884462.82	42884462.95	42884463.08	0.2651	0.1542
Mercury	112711-07-17 06:41 G	42888103.74	42888103.78	42888103.82	0.2650	0.2457
Mercury	112718-07-10 07:25 G	42890653.73	42890653.81	42890653.88	0.2663	0.1950
Mercury	112721-01-12 15:05 G	42891571.11	42891571.13	42891571.15	0.2676	0.2651
Mercury	112731-07-13 00:56 G	42895404.43	42895404.54	42895404.65	0.2654	0.0309
Mercury	112734-01-15 21:34 G	42896322.26	42896322.40	42896322.55	0.2671	0.1080
Mercury	112744-07-14 17:44 G	42900155.14	42900155.24	42900155.34	0.2652	0.1214
Mercury	112764-07-10 11:44 G	42907455.91	42907455.99	42907456.08	0.2654	0.1720
Mercury	112767-01-13 21:34 G	42908373.29	42908373.40	42908373.50	0.2669	0.1908
Mercury	112777-07-13 04:46 G	42912206.59	42912206.70	42912206.82	0.2653	0.0096
Mercury	112780-01-17 02:37 G	42913124.47	42913124.61	42913124.74	0.2667	0.1416
Mercury	112790-07-15 22:03 G	42916957.33	42916957.42	42916957.52	0.2659	0.1441
Mercury	112810-07-11 15:49 G	42924258.07	42924258.16	42924258.25	0.2655	0.1436
Mercury	112813-01-14 01:53 G	42925175.45	42925175.58	42925175.71	0.2667	0.1424
Venus	112823-01-31 05:58 G	42928844.59	42928844.75	42928844.91	0.2679	0.0372
Mercury	112823-07-14 09:20 G	42929008.78	42929008.89	42929009.00	0.2662	0.0227
Mercury	112826-01-17 07:53 G	42929926.71	42929926.83	42929926.94	0.2674	0.1785
Mercury	112836-07-16 03:34 G	42933759.58	42933759.65	42933759.72	0.2663	0.1987
Mercury	112856-07-11 20:37 G	42941060.26	42941060.36	42941060.46	0.2663	0.1043
Mercury	112859-01-15 07:39 G	42941977.67	42941977.82	42941977.96	0.2673	0.0974
Mercury	112869-07-14 14:51 G	42945811.01	42945811.12	42945811.23	0.2665	0.0617
Mercury	112882-07-17 09:05 G	42950561.85	42950561.88	42950561.92	0.2658	0.2495
Mercury	112889-07-10 07:39 G	42953111.78	42953111.82	42953111.86	0.2665	0.2436
Mercury	112902-07-14 02:08 G	42957862.49	42957862.59	42957862.70	0.2666	0.0629
Mercury	112905-01-16 15:49 G	42958780.00	42958780.16	42958780.31	0.2680	0.0169
Mercury	112915-07-16 20:22 G	42962613.25	42962613.35	42962613.45	0.2659	0.1158
Mercury	112935-07-12 13:25 G	42969913.98	42969914.06	42969914.14	0.2667	0.1861
Venus	112944-07-29 22:46 G	42973219.30	42973219.45	42973219.60	0.2651	0.0789

Mercury	112948-07-14 07:25 G	42974664.70	42974664.81	42974664.92	0.2660	0.0242
Mercury	112951-01-17 23:58 G	42975582.35	42975582.50	42975582.64	0.2677	0.0921
Mercury	112961-07-17 00:41 G	42979415.44	42979415.53	42979415.62	0.2651	0.1469
Mercury	112981-07-12 18:41 G	42986716.19	42986716.28	42986716.37	0.2660	0.1521
Mercury	112984-01-16 00:13 G	42987633.41	42987633.51	42987633.61	0.2673	0.2006
Mercury	112994-07-15 11:44 G	42991466.88	42991466.99	42991467.10	0.2653	0.0104
Mercury	112997-01-18 05:58 G	42992384.63	42992384.75	42992384.88	0.2670	0.1631

114TH MILLENNIUM CE

This is a list of transits visible from Moon in the 114th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	113007-07-19 04:46 G	42996217.61	42996217.70	42996217.79	0.2653	0.1593		
Mercury	113027-07-14 22:46 G	43003518.35	43003518.45	43003518.55	0.2654	0.1310		
Mercury	113030-01-17 05:58 G	43004435.61	43004435.75	43004435.88	0.2667	0.1314		
Mercury	113040-07-16 15:49 G	43008269.05	43008269.16	43008269.27	0.2655	0.0361		
Mercury	113043-01-20 10:32 G	43009186.82	43009186.94	43009187.05	0.2669	0.1856		
Mercury	113053-07-19 09:34 G	43013019.83	43013019.90	43013019.98	0.2662	0.1928		
Venus	113058-02-04 08:22 G	43014680.84	43014680.85	43014680.86	0.2680	0.2674		
Mercury	113060-07-12 09:34 G	43015569.89	43015569.90	43015569.91	0.2655	0.2640		
Venus	113066-02-01 22:46 G	43017600.32	43017600.45	43017600.57	0.2685	0.1569		
Mercury	113073-07-15 02:51 G	43020320.51	43020320.62	43020320.72	0.2659	0.1021		
Mercury	113076-01-18 10:17 G	43021237.78	43021237.93	43021238.07	0.2669	0.0888		
Mercury	113086-07-17 20:51 G	43025071.26	43025071.37	43025071.48	0.2663	0.0652		

Mercury	113089-01-20 16:32 G	43025989.12	43025989.19	43025989.25	0.2676	0.2405
Mercury	113099-07-20 15:05 G	43029822.10	43029822.13	43029822.17	0.2663	0.2505
Mercury	113106-07-14 13:53 G	43032372.04	43032372.08	43032372.12	0.2662	0.2442
Mercury	113119-07-17 07:53 G	43037122.72	43037122.83	43037122.94	0.2665	0.0586
Mercury	113122-01-19 16:32 G	43038040.04	43038040.19	43038040.35	0.2677	0.0364
Mercury	113132-07-19 02:22 G	43041873.51	43041873.60	43041873.70	0.2664	0.1137
Mercury	113152-07-14 18:56 G	43049174.22	43049174.29	43049174.37	0.2668	0.1928
Mercury	113165-07-17 13:39 G	43053924.96	43053925.07	43053925.18	0.2664	0.0149
Mercury	113168-01-21 00:56 G	43054842.39	43054842.54	43054842.69	0.2680	0.0546
Mercury	113178-07-20 07:39 G	43058675.73	43058675.82	43058675.90	0.2657	0.1632
Venus	113187-08-01 14:08 G	43061974.94	43061975.09	43061975.25	0.2645	0.1097
Mercury	113198-07-16 00:41 G	43065976.44	43065976.53	43065976.62	0.2665	0.1403
Mercury	113201-01-18 01:39 G	43066893.48	43066893.57	43066893.66	0.2678	0.2116
Mercury	113211-07-18 18:41 G	43070727.17	43070727.28	43070727.39	0.2657	0.0221
Mercury	113214-01-21 08:51 G	43071644.74	43071644.87	43071644.99	0.2673	0.1574
Mercury	113224-07-20 11:44 G	43075477.91	43075477.99	43075478.07	0.2651	0.1833
Mercury	113244-07-16 05:29 G	43082778.63	43082778.73	43082778.83	0.2656	0.1129
Mercury	113247-01-19 08:51 G	43083695.74	43083695.87	43083696.00	0.2670	0.1397
Mercury	113257-07-18 22:46 G	43087529.34	43087529.45	43087529.56	0.2653	0.0522
Mercury	113260-01-22 14:22 G	43088447.00	43088447.10	43088447.19	0.2668	0.2134
Mercury	113270-07-21 15:49 G	43092280.09	43092280.16	43092280.23	0.2655	0.1974
Mercury	113277-07-14 16:17 G	43094830.14	43094830.18	43094830.23	0.2657	0.2403
Mercury	113290-07-17 09:34 G	43099580.80	43099580.90	43099581.01	0.2654	0.0916
Mercury	113293-01-19 13:39 G	43100497.92	43100498.07	43100498.22	0.2665	0.0860
Mercury	113303-07-21 02:51 G	43104331.52	43104331.62	43104331.73	0.2660	0.0776
Mercury	113306-01-23 18:41 G	43105249.21	43105249.28	43105249.35	0.2673	0.2364
Venus	113309-02-04 10:03 G	43106356.77	43106356.92	43106357.08	0.2685	0.0084
Mercury	113316-07-22 21:05 G	43109082.34	43109082.38	43109082.42	0.2663	0.2437
Mercury	113323-07-16 20:22 G	43111632.29	43111632.35	43111632.40	0.2657	0.2291
Mercury	113336-07-18 14:08 G	43116382.98	43116383.09	43116383.20	0.2664	0.0546

Mercury	113339-01-21 18:41 G	43117300.13	43117300.28	43117300.43	0.2673	0.0326
Mercury	113349-07-21 08:22 G	43121133.75	43121133.85	43121133.95	0.2665	0.1156
Mercury	113369-07-17 01:10 G	43128434.48	43128434.55	43128434.62	0.2666	0.1966
Mercury	113382-07-19 19:39 G	43133185.21	43133185.32	43133185.43	0.2667	0.0065
Mercury	113385-01-22 02:51 G	43134102.47	43134102.62	43134102.77	0.2680	0.0485
Mercury	113395-07-22 13:53 G	43137936.00	43137936.08	43137936.17	0.2658	0.1621
Mercury	113415-07-19 06:56 G	43145236.70	43145236.79	43145236.89	0.2667	0.1365
Mercury	113418-01-21 03:49 G	43146153.56	43146153.66	43146153.75	0.2677	0.2091
Venus	113422-08-06 01:53 G	43147811.50	43147811.58	43147811.67	0.2655	0.2160
Mercury	113428-07-21 00:56 G	43149987.43	43149987.54	43149987.65	0.2658	0.0334
Venus	113430-08-03 22:17 G	43150731.29	43150731.43	43150731.58	0.2655	0.0886
Mercury	113431-01-24 11:01 G	43150904.82	43150904.96	43150905.09	0.2676	0.1325
Mercury	113441-07-23 18:13 G	43154738.19	43154738.26	43154738.33	0.2651	0.1965
Mercury	113461-07-19 11:58 G	43162038.90	43162039.00	43162039.11	0.2658	0.0927
Mercury	113464-01-22 11:15 G	43162955.84	43162955.97	43162956.10	0.2671	0.1337
Mercury	113474-07-22 05:01 G	43166789.60	43166789.71	43166789.82	0.2652	0.0514
Mercury	113477-01-24 16:03 G	43167707.06	43167707.17	43167707.28	0.2667	0.1917
Mercury	113487-07-24 22:17 G	43171540.36	43171540.43	43171540.49	0.2656	0.2188
Mercury	113494-07-17 22:46 G	43174090.40	43174090.45	43174090.50	0.2657	0.2344
Mercury	113507-07-21 15:49 G	43178841.05	43178841.16	43178841.27	0.2655	0.0809
Mercury	113510-01-23 16:03 G	43179758.02	43179758.17	43179758.31	0.2666	0.1049
Mercury	113520-07-23 09:20 G	43183591.78	43183591.89	43183591.99	0.2659	0.0847
Mercury	113523-01-26 20:51 G	43184509.31	43184509.37	43184509.43	0.2671	0.2431
Mercury	113533-07-26 03:20 G	43188342.61	43188342.64	43188342.67	0.2664	0.2525
Mercury	113540-07-19 02:37 G	43190892.54	43190892.61	43190892.68	0.2658	0.2114
Venus	113544-02-09 12:27 G	43192192.96	43192193.02	43192193.09	0.2677	0.2424
Venus	113552-02-07 01:39 G	43195112.45	43195112.57	43195112.69	0.2682	0.1739
Mercury	113553-07-21 20:22 G	43195643.24	43195643.35	43195643.46	0.2662	0.0573
Mercury	113556-01-24 20:51 G	43196560.22	43196560.37	43196560.52	0.2673	0.0551
Mercury	113566-07-24 14:51 G	43200394.02	43200394.12	43200394.21	0.2666	0.1362

Mercury	113586-07-20 07:25 G	43207694.73	43207694.81	43207694.89	0.2667	0.1823
Mercury	113599-07-23 02:08 G	43212445.48	43212445.59	43212445.70	0.2666	0.0010
Mercury	113602-01-25 05:01 G	43213362.56	43213362.71	43213362.86	0.2679	0.0505
Mercury	113612-07-24 20:22 G	43217196.27	43217196.35	43217196.43	0.2660	0.1749
Mercury	113632-07-20 13:25 G	43224496.96	43224497.06	43224497.15	0.2666	0.1356
Mercury	113635-01-23 06:13 G	43225413.69	43225413.76	43225413.83	0.2678	0.2307
Mercury	113645-07-23 07:25 G	43229247.70	43229247.81	43229247.92	0.2658	0.0516
Mercury	113648-01-26 13:10 G	43230164.92	43230165.05	43230165.18	0.2673	0.1431
Mercury	113658-07-26 00:27 G	43233998.44	43233998.52	43233998.59	0.2652	0.1920
Mercury	113665-07-19 00:13 G	43236548.49	43236548.51	43236548.54	0.2667	0.2601
Venus	113673-08-04 14:08 G	43239486.95	43239487.09	43239487.23	0.2650	0.1293
Mercury	113678-07-21 18:13 G	43241299.16	43241299.26	43241299.36	0.2656	0.0953
Mercury	113681-01-23 13:25 G	43242215.92	43242216.06	43242216.19	0.2668	0.1393
Mercury	113691-07-24 11:15 G	43246049.86	43246049.97	43246050.08	0.2654	0.0660
Mercury	113694-01-26 18:13 G	43246967.15	43246967.26	43246967.38	0.2667	0.1730
Mercury	113704-07-27 04:32 G	43250800.63	43250800.69	43250800.75	0.2657	0.2212
Mercury	113711-07-21 04:46 G	43253350.65	43253350.70	43253350.75	0.2657	0.2361
Mercury	113724-07-22 22:03 G	43258101.31	43258101.42	43258101.53	0.2656	0.0675
Mercury	113727-01-25 17:44 G	43259018.10	43259018.24	43259018.39	0.2665	0.0998
Mercury	113737-07-25 15:34 G	43262852.05	43262852.15	43262852.26	0.2662	0.0856
Mercury	113740-01-28 23:01 G	43263769.37	43263769.46	43263769.55	0.2674	0.2128
Mercury	113757-07-21 08:51 G	43270152.81	43270152.87	43270152.93	0.2658	0.2159
Mercury	113770-07-24 02:51 G	43274903.51	43274903.62	43274903.73	0.2665	0.0364
Mercury	113773-01-25 23:29 G	43275820.33	43275820.48	43275820.63	0.2674	0.0611
Mercury	113783-07-26 21:20 G	43279654.29	43279654.39	43279654.48	0.2665	0.1377
Venus	113795-02-08 12:41 G	43283868.87	43283869.03	43283869.19	0.2678	0.0086
Mercury	113803-07-23 13:53 G	43286954.99	43286955.08	43286955.16	0.2667	0.1688
Mercury	113816-07-25 08:22 G	43291705.74	43291705.85	43291705.96	0.2667	0.0069
Mercury	113819-01-28 07:39 G	43292622.67	43292622.82	43292622.97	0.2679	0.0294
Mercury	113829-07-28 02:37 G	43296456.54	43296456.61	43296456.69	0.2658	0.1914

Mercury	113849-07-23 19:39 G	43303757.22	43303757.32	43303757.42	0.2667	0.1160
Mercury	113852-01-26 08:51 G	43304673.79	43304673.87	43304673.94	0.2676	0.2284
Mercury	113862-07-26 13:39 G	43308507.96	43308508.07	43308508.18	0.2658	0.0493
Mercury	113865-01-28 15:20 G	43309425.01	43309425.14	43309425.28	0.2674	0.1349
Mercury	113875-07-29 07:10 G	43313258.73	43313258.80	43313258.86	0.2652	0.2140
Mercury	113882-07-22 06:41 G	43315808.74	43315808.78	43315808.81	0.2667	0.2517
Mercury	113895-07-25 00:41 G	43320559.42	43320559.53	43320559.63	0.2659	0.0864
Mercury	113898-01-26 16:03 G	43321476.05	43321476.17	43321476.30	0.2670	0.1562
Mercury	113908-07-27 17:44 G	43325310.14	43325310.24	43325310.35	0.2653	0.0820
Venus	113908-08-10 07:10 G	43325323.76	43325323.80	43325323.85	0.2656	0.2526
Mercury	113911-01-30 20:37 G	43326227.25	43326227.36	43326227.48	0.2667	0.1844
Venus	113916-08-08 01:53 G	43328243.42	43328243.58	43328243.73	0.2653	0.0687
Mercury	113921-07-30 11:01 G	43330060.90	43330060.96	43330061.02	0.2656	0.2268
Mercury	113928-07-23 11:29 G	43332610.91	43332610.98	43332611.04	0.2659	0.2129
Mercury	113941-07-26 04:32 G	43337361.58	43337361.69	43337361.80	0.2655	0.0655
Mercury	113944-01-28 20:51 G	43338278.23	43338278.37	43338278.51	0.2665	0.1013
Mercury	113954-07-28 22:03 G	43342112.32	43342112.42	43342112.52	0.2658	0.1040
Mercury	113957-01-31 01:25 G	43343029.47	43343029.56	43343029.66	0.2669	0.2096
Mercury	113974-07-24 15:20 G	43349413.07	43349413.14	43349413.21	0.2657	0.2015
Mercury	113987-07-27 08:51 G	43354163.76	43354163.87	43354163.99	0.2661	0.0290
Mercury	113990-01-29 01:39 G	43355080.42	43355080.57	43355080.72	0.2671	0.0536
Mercury	114000-07-29 03:20 G	43358914.55	43358914.64	43358914.73	0.2666	0.1397

115TH MILLENNIUM CE

This is a list of transits visible from Moon in the 115th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	114020-07-24 19:53	G	43366215.24	43366215.33	43366215.41	0.2665	0.1736	
Venus	114030-02-12 13:53	G	43369704.98	43369705.08	43369705.18	0.2677	0.2063	
Mercury	114033-07-27 14:22	G	43370965.99	43370966.10	43370966.22	0.2667	0.0209	
Mercury	114036-01-30 08:51	G	43371882.72	43371882.87	43371883.03	0.2678	0.0129	
Venus	114038-02-10 04:46	G	43372624.58	43372624.70	43372624.81	0.2682	0.1746	
Mercury	114046-07-30 08:51	G	43375716.80	43375716.87	43375716.95	0.2663	0.1911	
Mercury	114066-07-26 01:25	G	43383017.46	43383017.56	43383017.66	0.2669	0.1149	
Mercury	114069-01-27 10:17	G	43383933.86	43383933.93	43383934.00	0.2677	0.2358	
Mercury	114079-07-28 20:08	G	43387768.23	43387768.34	43387768.45	0.2662	0.0579	
Mercury	114082-01-30 17:29	G	43388685.09	43388685.23	43388685.37	0.2675	0.1073	
Mercury	114092-07-30 13:39	G	43392519.01	43392519.07	43392519.12	0.2653	0.2295	
Mercury	114099-07-24 12:27	G	43395069.00	43395069.02	43395069.05	0.2670	0.2580	
Mercury	114112-07-27 06:56	G	43399819.68	43399819.79	43399819.90	0.2660	0.0660	
Mercury	114115-01-29 18:27	G	43400736.14	43400736.27	43400736.39	0.2671	0.1548	
Mercury	114125-07-30 00:27	G	43404570.42	43404570.52	43404570.63	0.2654	0.0867	
Mercury	114128-02-01 23:44	G	43405487.38	43405487.49	43405487.60	0.2668	0.1847	
Mercury	114138-08-01 17:29	G	43409321.19	43409321.23	43409321.27	0.2653	0.2472	
Mercury	114145-07-25 17:44	G	43411871.17	43411871.24	43411871.31	0.2660	0.2060	
Mercury	114158-07-28 11:15	G	43416621.86	43416621.97	43416622.08	0.2655	0.0505	
Venus	114159-08-09 16:03	G	43416999.04	43416999.17	43416999.31	0.2653	0.1457	
Mercury	114161-01-29 23:44	G	43417538.35	43417538.49	43417538.63	0.2664	0.1166	
Mercury	114171-07-31 04:17	G	43421372.58	43421372.68	43421372.78	0.2658	0.1130	
Mercury	114174-02-02 03:49	G	43422289.58	43422289.66	43422289.75	0.2670	0.2206	
Mercury	114191-07-26 21:49	G	43428673.32	43428673.41	43428673.49	0.2656	0.1816	
Mercury	114204-07-29 15:20	G	43433424.03	43433424.14	43433424.25	0.2662	0.0297	
Mercury	114207-02-01 04:17	G	43434340.53	43434340.68	43434340.83	0.2670	0.0689	
Mercury	114217-08-01 09:34	G	43438174.81	43438174.90	43438174.99	0.2665	0.1574	

Mercury	114237-07-28 02:22 G	43445475.51	43445475.60	43445475.68	0.2665	0.1598
Mercury	114250-07-30 20:51 G	43450226.26	43450226.37	43450226.48	0.2668	0.0264
Mercury	114253-02-01 11:58 G	43451142.85	43451143.00	43451143.15	0.2679	0.0295
Mercury	114263-08-02 15:20 G	43454977.07	43454977.14	43454977.21	0.2660	0.2039
Venus	114281-02-12 12:56 G	43461380.88	43461381.04	43461381.21	0.2674	0.0439
Mercury	114283-07-29 08:08 G	43462277.74	43462277.84	43462277.94	0.2668	0.1101
Mercury	114286-01-30 13:53 G	43463194.02	43463194.08	43463194.13	0.2675	0.2438
Mercury	114296-07-31 02:22 G	43467028.49	43467028.60	43467028.71	0.2659	0.0775
Mercury	114299-02-02 20:08 G	43467945.21	43467945.34	43467945.48	0.2673	0.1191
Mercury	114309-08-03 19:39 G	43471779.26	43471779.32	43471779.38	0.2652	0.2228
Mercury	114316-07-27 19:10 G	43474329.25	43474329.30	43474329.36	0.2666	0.2314
Mercury	114329-07-30 13:10 G	43479079.94	43479080.05	43479080.16	0.2658	0.0679
Mercury	114332-02-01 20:51 G	43479996.24	43479996.37	43479996.49	0.2667	0.1550
Mercury	114342-08-02 06:12 G	43483830.65	43483830.76	43483830.86	0.2654	0.0931
Mercury	114345-02-04 00:27 G	43484747.39	43484747.52	43484747.66	0.2666	0.1430
Mercury	114355-08-04 23:44 G	43488581.45	43488581.49	43488581.53	0.2661	0.2478
Mercury	114362-07-28 23:44 G	43491131.42	43491131.49	43491131.55	0.2657	0.2107
Mercury	114375-07-31 16:46 G	43495882.09	43495882.20	43495882.31	0.2659	0.0470
Mercury	114378-02-02 00:27 G	43496798.39	43496798.52	43496798.66	0.2667	0.1263
Mercury	114388-08-02 10:46 G	43500632.86	43500632.95	43500633.05	0.2665	0.1201
Mercury	114391-02-05 05:58 G	43501549.65	43501549.75	43501549.86	0.2675	0.1904
Venus	114402-08-11 22:46 G	43505755.30	43505755.45	43505755.60	0.2647	0.1340
Mercury	114408-07-29 03:34 G	43507933.58	43507933.65	43507933.73	0.2665	0.1939
Mercury	114421-07-31 22:03 G	43512684.31	43512684.42	43512684.53	0.2668	0.0004
Mercury	114424-02-03 07:24 G	43513600.67	43513600.81	43513600.96	0.2677	0.0583
Mercury	114434-08-03 16:46 G	43517435.12	43517435.20	43517435.29	0.2663	0.1716
Mercury	114454-07-30 09:20 G	43524735.80	43524735.89	43524735.99	0.2669	0.1367
Mercury	114467-08-02 03:48 G	43529486.55	43529486.66	43529486.77	0.2660	0.0489
Mercury	114470-02-03 16:17 G	43530403.03	43530403.18	43530403.33	0.2671	0.0356
Mercury	114480-08-03 21:05 G	43534237.31	43534237.38	43534237.46	0.2653	0.2013

Mercury	114500-07-31 14:22 G	43541538.00	43541538.10	43541538.21	0.2658	0.0899
Mercury	114503-02-02 16:46 G	43542454.12	43542454.20	43542454.29	0.2666	0.2213
Mercury	114513-08-03 07:39 G	43546288.71	43546288.82	43546288.93	0.2655	0.0608
Mercury	114516-02-05 20:51 G	43547205.22	43547205.37	43547205.52	0.2665	0.0672
Venus	114524-02-15 17:00 G	43550137.05	43550137.21	43550137.37	0.2675	0.0406
Mercury	114526-08-06 01:10 G	43551039.50	43551039.55	43551039.60	0.2660	0.2296
Mercury	114533-07-30 00:56 G	43553589.49	43553589.54	43553589.58	0.2658	0.2423
Mercury	114546-08-01 18:12 G	43558340.15	43558340.26	43558340.37	0.2659	0.0694
Mercury	114549-02-02 20:36 G	43559256.26	43559256.36	43559256.46	0.2666	0.2009
Mercury	114559-08-04 12:27 G	43563090.92	43563091.02	43563091.12	0.2666	0.0918
Mercury	114562-02-06 02:22 G	43564007.47	43564007.60	43564007.73	0.2676	0.1275
Mercury	114579-07-31 05:00 G	43570391.64	43570391.71	43570391.77	0.2665	0.2185
Mercury	114592-08-01 23:44 G	43575142.38	43575142.49	43575142.60	0.2669	0.0257
Mercury	114595-02-04 04:17 G	43576058.55	43576058.68	43576058.81	0.2676	0.1296
Mercury	114605-08-05 18:27 G	43579893.18	43579893.27	43579893.36	0.2663	0.1507
Mercury	114608-02-08 11:15 G	43580809.91	43580809.97	43580810.03	0.2677	0.2455
Mercury	114625-08-01 11:00 G	43587193.87	43587193.96	43587194.05	0.2668	0.1558
Mercury	114638-08-04 05:15 G	43591944.61	43591944.72	43591944.84	0.2660	0.0163
Mercury	114641-02-05 12:27 G	43592860.87	43592861.02	43592861.17	0.2669	0.0413
Venus	114645-08-14 03:05 G	43594511.48	43594511.63	43594511.79	0.2649	0.0868
Mercury	114651-08-06 22:32 G	43596695.36	43596695.44	43596695.52	0.2653	0.1789
Mercury	114671-08-02 15:48 G	43603996.06	43603996.16	43603996.26	0.2658	0.1140
Mercury	114684-08-04 09:05 G	43608746.76	43608746.88	43608746.99	0.2657	0.0300
Mercury	114687-02-06 16:32 G	43609663.03	43609663.19	43609663.34	0.2665	0.0093
Mercury	114697-08-07 02:51 G	43613497.55	43613497.62	43613497.68	0.2661	0.2075
Mercury	114717-08-03 19:39 G	43620798.21	43620798.32	43620798.42	0.2662	0.1015
Mercury	114730-08-06 13:53 G	43625548.97	43625549.08	43625549.19	0.2666	0.0705
Mercury	114733-02-07 22:17 G	43626465.29	43626465.43	43626465.58	0.2677	0.0669
Mercury	114743-08-09 08:51 G	43630299.85	43630299.87	43630299.89	0.2664	0.2603
Mercury	114750-08-02 06:12 G	43632849.72	43632849.76	43632849.81	0.2666	0.2382

Mercury	114763-08-05 01:10 G	43637600.44	43637600.55	43637600.66	0.2670	0.0603
Mercury	114766-02-06 00:41 G	43638516.44	43638516.53	43638516.63	0.2676	0.1982
Venus	114767-02-17 18:56 G	43638893.14	43638893.29	43638893.44	0.2679	0.0739
Mercury	114776-08-06 19:53 G	43642351.23	43642351.33	43642351.43	0.2661	0.1311
Mercury	114779-02-09 07:24 G	43643267.69	43643267.81	43643267.92	0.2674	0.1758
Mercury	114796-08-02 12:27 G	43649651.94	43649652.02	43649652.10	0.2669	0.1779
Mercury	114809-08-05 06:41 G	43654402.67	43654402.78	43654402.89	0.2660	0.0146
Mercury	114812-02-07 08:22 G	43655318.72	43655318.85	43655318.99	0.2669	0.1043
Mercury	114822-08-07 23:58 G	43659153.41	43659153.50	43659153.59	0.2654	0.1561
Mercury	114825-02-09 12:27 G	43660069.93	43660070.02	43660070.11	0.2665	0.2157
Mercury	114842-08-03 17:15 G	43666454.13	43666454.22	43666454.31	0.2659	0.1473
Mercury	114855-08-06 10:32 G	43671204.82	43671204.94	43671205.05	0.2657	0.0096
Mercury	114858-02-07 12:12 G	43672120.87	43672121.01	43672121.16	0.2665	0.0702
Mercury	114868-08-08 04:17 G	43675955.60	43675955.68	43675955.76	0.2664	0.1791
Mercury	114871-02-10 17:15 G	43676872.17	43676872.22	43676872.28	0.2673	0.2466
Mercury	114888-08-03 20:51 G	43683256.28	43683256.37	43683256.47	0.2663	0.1371
Venus	114888-08-15 06:12 G	43683267.59	43683267.76	43683267.92	0.2652	0.0373
Mercury	114901-08-07 15:34 G	43688007.04	43688007.15	43688007.25	0.2667	0.0530
Mercury	114904-02-09 18:41 G	43688923.13	43688923.28	43688923.43	0.2675	0.0030
Mercury	114914-08-10 10:17 G	43692757.87	43692757.93	43692757.98	0.2665	0.2262
Mercury	114921-08-03 07:39 G	43695307.81	43695307.82	43695307.83	0.2668	0.2636
Mercury	114934-08-06 02:36 G	43700058.51	43700058.61	43700058.72	0.2670	0.0883
Mercury	114937-02-06 20:51 G	43700974.35	43700974.37	43700974.40	0.2676	0.2614
Mercury	114947-08-08 21:20 G	43704809.29	43704809.39	43704809.49	0.2663	0.1084
Mercury	114950-02-10 03:34 G	43705725.51	43705725.65	43705725.79	0.2672	0.1007
Mercury	114960-08-10 14:51 G	43709560.09	43709560.12	43709560.15	0.2653	0.2557
Mercury	114967-08-04 13:39 G	43712110.01	43712110.07	43712110.14	0.2670	0.2130
Mercury	114980-08-06 08:08 G	43716860.73	43716860.84	43716860.95	0.2659	0.0367
Mercury	114983-02-08 04:32 G	43717776.57	43717776.69	43717776.81	0.2666	0.1660
Mercury	114993-08-09 01:24 G	43721611.46	43721611.56	43721611.66	0.2655	0.1238

Mercury 114996-02-11 08:36 G 43722527.73 43722527.86 43722528.00 0.2665 0.1317

116TH MILLENNIUM CE

This is a list of transits visible from Moon in the 116th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	115002-02-21 22:17	G	43724729.37	43724729.43	43724729.49	0.2685	0.2417	
Venus	115010-02-19 18:56	G	43727649.15	43727649.29	43727649.43	0.2680	0.1040	
Mercury	115013-08-05 18:27	G	43728912.19	43728912.27	43728912.35	0.2658	0.1829	
Mercury	115026-08-08 11:58	G	43733662.88	43733663.00	43733663.11	0.2658	0.0161	
Mercury	115029-02-09 08:36	G	43734578.73	43734578.86	43734579.00	0.2664	0.1316	
Mercury	115039-08-11 05:44	G	43738413.64	43738413.74	43738413.83	0.2664	0.1442	
Mercury	115042-02-12 13:24	G	43739329.95	43739330.06	43739330.18	0.2674	0.1703	
Mercury	115059-08-06 22:17	G	43745714.35	43745714.43	43745714.52	0.2662	0.1654	
Mercury	115072-08-08 16:46	G	43750465.09	43750465.20	43750465.31	0.2669	0.0272	
Mercury	115075-02-10 15:05	G	43751380.99	43751381.13	43751381.28	0.2675	0.0739	
Mercury	115085-08-11 11:44	G	43755215.92	43755215.99	43755216.06	0.2665	0.1995	
Mercury	115105-08-08 04:03	G	43762516.57	43762516.67	43762516.77	0.2670	0.1101	
Mercury	115118-08-10 22:46	G	43767267.34	43767267.45	43767267.55	0.2665	0.0733	
Mercury	115121-02-11 23:44	G	43768183.34	43768183.49	43768183.64	0.2674	0.0158	
Mercury	115131-08-13 16:32	G	43772018.14	43772018.19	43772018.23	0.2655	0.2400	
Venus	115131-08-19 08:08	G	43772023.68	43772023.84	43772024.00	0.2657	0.0028	
Mercury	115138-08-06 15:05	G	43774568.09	43774568.13	43774568.16	0.2671	0.2487	
Mercury	115151-08-09 09:34	G	43779318.79	43779318.90	43779319.01	0.2663	0.0539	

Mercury	115154-02-10 01:10 G	43780234.47	43780234.55	43780234.63	0.2667	0.2253
Mercury	115164-08-11 02:51 G	43784069.52	43784069.62	43784069.73	0.2655	0.0930
Mercury	115167-02-13 05:00 G	43784985.56	43784985.71	43784985.86	0.2664	0.0632
Mercury	115177-08-13 20:22 G	43788820.33	43788820.35	43788820.36	0.2657	0.2628
Mercury	115184-08-06 20:08 G	43791370.27	43791370.34	43791370.41	0.2660	0.2069
Mercury	115197-08-09 13:24 G	43796120.94	43796121.06	43796121.17	0.2658	0.0387
Mercury	115200-02-11 05:29 G	43797036.63	43797036.73	43797036.83	0.2663	0.2040
Mercury	115210-08-12 07:10 G	43800871.70	43800871.80	43800871.90	0.2661	0.1197
Mercury	115213-02-13 09:20 G	43801787.76	43801787.89	43801788.03	0.2670	0.1105
Mercury	115230-08-07 23:44 G	43808172.41	43808172.49	43808172.57	0.2661	0.1825
Mercury	115243-08-10 17:58 G	43812923.14	43812923.25	43812923.36	0.2667	0.0160
Venus	115245-02-22 19:24 G	43813485.18	43813485.31	43813485.43	0.2681	0.1581
Mercury	115246-02-11 11:00 G	43813838.85	43813838.96	43813839.08	0.2673	0.1623
Venus	115253-02-20 15:20 G	43816405.01	43816405.14	43816405.27	0.2683	0.1327
Mercury	115256-08-12 12:56 G	43817673.96	43817674.04	43817674.12	0.2667	0.1789
Mercury	115259-02-14 17:44 G	43818590.15	43818590.24	43818590.33	0.2677	0.2124
Mercury	115276-08-08 05:00 G	43824974.61	43824974.71	43824974.80	0.2671	0.1367
Mercury	115289-08-10 23:58 G	43829725.39	43829725.50	43829725.61	0.2666	0.0394
Mercury	115292-02-12 19:39 G	43830641.17	43830641.32	43830641.46	0.2674	0.0577
Mercury	115302-08-14 18:12 G	43834476.20	43834476.26	43834476.32	0.2658	0.2238
Mercury	115322-08-10 10:46 G	43841776.85	43841776.95	43841777.06	0.2666	0.0878
Mercury	115335-08-13 04:46 G	43846527.59	43846527.70	43846527.80	0.2656	0.0773
Mercury	115338-02-14 01:39 G	43847443.42	43847443.57	43847443.72	0.2664	0.0135
Mercury	115348-08-14 21:48 G	43851278.36	43851278.41	43851278.46	0.2656	0.2347
Mercury	115355-08-08 21:34 G	43853828.34	43853828.40	43853828.46	0.2664	0.2226
Venus	115366-08-22 08:08 G	43857859.80	43857859.84	43857859.87	0.2660	0.2570
Mercury	115368-08-10 14:51 G	43858579.01	43858579.12	43858579.23	0.2657	0.0711
Venus	115374-08-20 04:46 G	43860779.56	43860779.70	43860779.84	0.2664	0.0805
Mercury	115381-08-13 08:36 G	43863329.75	43863329.86	43863329.96	0.2661	0.1019
Mercury	115384-02-15 05:58 G	43864245.60	43864245.75	43864245.90	0.2667	0.0505

Mercury	115394-08-16 02:51 G	43868080.61	43868080.62	43868080.62	0.2665	0.2651
Mercury	115401-08-10 01:10 G	43870630.48	43870630.55	43870630.62	0.2660	0.2047
Mercury	115414-08-12 19:10 G	43875381.19	43875381.30	43875381.41	0.2665	0.0455
Mercury	115417-02-13 07:10 G	43876296.72	43876296.80	43876296.88	0.2669	0.2243
Mercury	115427-08-15 13:53 G	43880131.99	43880132.08	43880132.18	0.2669	0.1502
Mercury	115430-02-16 13:24 G	43881047.93	43881048.06	43881048.19	0.2677	0.1274
Mercury	115447-08-11 05:58 G	43887432.67	43887432.75	43887432.83	0.2670	0.1777
Mercury	115460-08-13 01:10 G	43892183.44	43892183.55	43892183.66	0.2669	0.0174
Mercury	115463-02-14 15:48 G	43893099.03	43893099.16	43893099.29	0.2674	0.1163
Mercury	115473-08-15 19:39 G	43896934.24	43896934.32	43896934.40	0.2660	0.1913
Mercury	115476-02-17 21:34 G	43897850.30	43897850.40	43897850.49	0.2671	0.2062
Venus	115488-02-25 20:36 G	43902241.24	43902241.36	43902241.48	0.2672	0.1799
Mercury	115493-08-11 12:12 G	43904234.91	43904235.01	43904235.11	0.2667	0.1237
Venus	115496-02-23 10:32 G	43905160.81	43905160.94	43905161.06	0.2677	0.1541
Mercury	115506-08-15 06:12 G	43908985.65	43908985.76	43908985.87	0.2659	0.0626
Mercury	115509-02-15 22:32 G	43909901.29	43909901.44	43909901.59	0.2665	0.0432
Mercury	115519-08-17 23:29 G	43913736.41	43913736.48	43913736.55	0.2655	0.2046
Mercury	115522-02-19 01:53 G	43914652.51	43914652.58	43914652.64	0.2665	0.2403
Mercury	115526-08-10 22:46 G	43916286.41	43916286.45	43916286.48	0.2666	0.2528
Mercury	115539-08-13 16:46 G	43921037.09	43921037.20	43921037.30	0.2658	0.0909
Mercury	115552-08-15 10:03 G	43925787.81	43925787.92	43925788.02	0.2659	0.0764
Mercury	115555-02-17 02:22 G	43926703.45	43926703.60	43926703.75	0.2666	0.0272
Mercury	115565-08-18 04:03 G	43930538.62	43930538.67	43930538.72	0.2664	0.2398
Mercury	115572-08-11 02:51 G	43933088.57	43933088.62	43933088.66	0.2659	0.2372
Mercury	115585-08-13 20:36 G	43937839.25	43937839.36	43937839.47	0.2664	0.0653
Mercury	115598-08-16 15:05 G	43942590.03	43942590.13	43942590.23	0.2668	0.1087
Mercury	115601-02-17 09:05 G	43943505.73	43943505.88	43943506.03	0.2676	0.0341
Venus	115609-08-24 09:34 G	43946615.81	43946615.90	43946615.98	0.2652	0.2247
Venus	115617-08-22 00:56 G	43949535.42	43949535.54	43949535.65	0.2661	0.1747
Mercury	115618-08-12 07:10 G	43949890.73	43949890.80	43949890.87	0.2668	0.2128

Mercury	115631-08-15 02:08 G	43954641.48	43954641.59	43954641.71	0.2671	0.0138
Mercury	115634-02-15 11:44 G	43955556.89	43955556.99	43955557.10	0.2675	0.1901
Mercury	115644-08-16 21:05 G	43959392.29	43959392.38	43959392.47	0.2662	0.1604
Mercury	115647-02-18 17:44 G	43960308.11	43960308.24	43960308.37	0.2671	0.1382
Mercury	115664-08-12 13:24 G	43966692.96	43966693.06	43966693.15	0.2671	0.1516
Mercury	115677-08-15 07:39 G	43971443.71	43971443.82	43971443.93	0.2661	0.0319
Mercury	115680-02-16 19:10 G	43972359.17	43972359.30	43972359.44	0.2667	0.1221
Mercury	115690-08-18 01:10 G	43976194.47	43976194.55	43976194.63	0.2655	0.1894
Mercury	115693-02-18 22:46 G	43977110.34	43977110.45	43977110.55	0.2663	0.1938
Mercury	115710-08-14 18:12 G	43983495.15	43983495.26	43983495.36	0.2661	0.1058
Mercury	115723-08-17 11:29 G	43988245.87	43988245.98	43988246.09	0.2657	0.0435
Mercury	115726-02-17 23:15 G	43989161.33	43989161.47	43989161.61	0.2663	0.0994
Mercury	115736-08-19 05:15 G	43992996.66	43992996.72	43992996.79	0.2664	0.2205
Mercury	115739-02-21 03:34 G	43993912.58	43993912.65	43993912.71	0.2672	0.2391
Venus	115739-02-25 13:10 G	43993916.92	43993917.05	43993917.18	0.2669	0.1707
Mercury	115743-08-13 04:17 G	43995546.67	43995546.68	43995546.70	0.2660	0.2623
Mercury	115756-08-14 21:48 G	44000297.31	44000297.41	44000297.52	0.2662	0.0881
Mercury	115769-08-17 16:17 G	44005048.07	44005048.18	44005048.29	0.2668	0.0785
Mercury	115772-02-19 05:15 G	44005963.57	44005963.72	44005963.87	0.2673	0.0306
Mercury	115789-08-13 08:22 G	44012348.80	44012348.85	44012348.90	0.2668	0.2364
Mercury	115802-08-17 03:20 G	44017099.53	44017099.64	44017099.75	0.2671	0.0507
Mercury	115815-08-19 22:17 G	44021850.34	44021850.43	44021850.53	0.2667	0.1408
Mercury	115818-02-20 14:08 G	44022765.94	44022766.09	44022766.23	0.2672	0.0829
Mercury	115835-08-15 14:08 G	44029151.01	44029151.09	44029151.18	0.2673	0.1763
Mercury	115848-08-17 09:05 G	44033901.77	44033901.88	44033901.99	0.2663	0.0040
Mercury	115851-02-18 15:48 G	44034817.06	44034817.16	44034817.26	0.2666	0.1908
Venus	115852-08-26 16:17 G	44035372.11	44035372.18	44035372.24	0.2651	0.2433
Venus	115860-08-24 02:22 G	44038291.47	44038291.60	44038291.73	0.2656	0.1519
Mercury	115861-08-20 02:51 G	44038652.53	44038652.62	44038652.70	0.2656	0.1735
Mercury	115864-02-21 19:39 G	44039568.18	44039568.32	44039568.45	0.2664	0.1341

Mercury	115881-08-15 19:39 G	44045953.22	44045953.32	44045953.41	0.2662	0.1330
Mercury	115894-08-18 13:10 G	44050703.94	44050704.05	44050704.16	0.2657	0.0230
Mercury	115897-02-18 20:08 G	44051619.22	44051619.34	44051619.47	0.2661	0.1447
Mercury	115907-08-22 06:41 G	44055454.70	44055454.78	44055454.86	0.2661	0.1921
Mercury	115910-02-22 23:44 G	44056370.37	44056370.49	44056370.61	0.2670	0.1559
Mercury	115927-08-17 23:15 G	44062755.37	44062755.47	44062755.58	0.2660	0.1223
Mercury	115940-08-19 17:29 G	44067506.12	44067506.23	44067506.34	0.2667	0.0569
Mercury	115943-02-21 01:39 G	44068421.43	44068421.57	44068421.71	0.2671	0.0888
Mercury	115953-08-22 12:27 G	44072256.97	44072257.02	44072257.07	0.2668	0.2359
Mercury	115956-02-24 07:24 G	44073172.75	44073172.81	44073172.88	0.2677	0.2359
Mercury	115960-08-15 09:34 G	44074806.87	44074806.90	44074806.93	0.2665	0.2576
Mercury	115973-08-18 04:17 G	44079557.58	44079557.68	44079557.79	0.2671	0.0866
Venus	115982-02-27 19:10 G	44082673.17	44082673.30	44082673.43	0.2667	0.1640
Mercury	115986-08-20 23:29 G	44084308.38	44084308.48	44084308.58	0.2669	0.1152
Mercury	115989-02-21 10:03 G	44085223.77	44085223.92	44085224.07	0.2674	0.0070

117TH MILLENNIUM CE

This is a list of transits visible from Moon in the 117th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	116006-08-16 15:20 G	44091609.07	44091609.14	44091609.20	0.2673	0.2129		
Mercury	116019-08-19 10:17 G	44096359.82	44096359.93	44096360.05	0.2668	0.0265		
Mercury	116022-02-19 12:27 G	44097274.96	44097275.02	44097275.09	0.2668	0.2404		
Mercury	116032-08-21 04:17 G	44101110.59	44101110.68	44101110.78	0.2657	0.1467		

Mercury	116035-02-22 16:17 G	44102026.03	44102026.18	44102026.33	0.2664	0.0575
Mercury	116052-08-16 21:05 G	44108411.29	44108411.38	44108411.46	0.2664	0.1678
Mercury	116065-08-19 14:36 G	44113162.00	44113162.11	44113162.23	0.2658	0.0074
Mercury	116068-02-20 17:15 G	44114077.12	44114077.22	44114077.33	0.2661	0.1932
Mercury	116078-08-22 08:08 G	44117912.75	44117912.84	44117912.93	0.2659	0.1586
Mercury	116081-02-22 20:22 G	44118828.20	44118828.35	44118828.49	0.2666	0.0800
Mercury	116098-08-18 00:56 G	44125213.44	44125213.54	44125213.63	0.2660	0.1482
Venus	116103-08-27 09:05 G	44127047.71	44127047.88	44127048.05	0.2653	0.0483
Mercury	116111-08-21 18:41 G	44129964.17	44129964.28	44129964.39	0.2665	0.0314
Mercury	116114-02-21 22:03 G	44130879.30	44130879.42	44130879.53	0.2669	0.1615
Mercury	116124-08-23 13:39 G	44134715.00	44134715.07	44134715.14	0.2669	0.2046
Mercury	116127-02-25 03:34 G	44135630.54	44135630.65	44135630.76	0.2676	0.1702
Mercury	116144-08-19 05:29 G	44142015.63	44142015.73	44142015.83	0.2670	0.1116
Mercury	116157-08-22 00:41 G	44146766.42	44146766.53	44146766.64	0.2670	0.0795
Mercury	116160-02-23 06:12 G	44147681.62	44147681.76	44147681.90	0.2674	0.0807
Mercury	116170-08-24 19:24 G	44151517.29	44151517.31	44151517.32	0.2663	0.2619
Mercury	116177-08-17 16:17 G	44154067.15	44154067.18	44154067.21	0.2674	0.2524
Mercury	116190-08-20 11:29 G	44158817.87	44158817.98	44158818.09	0.2670	0.0481
Mercury	116203-08-24 05:58 G	44163568.65	44163568.75	44163568.85	0.2660	0.1160
Mercury	116206-02-24 13:10 G	44164483.90	44164484.05	44164484.20	0.2663	0.0111
Venus	116217-03-04 06:27 G	44168509.68	44168509.77	44168509.87	0.2679	0.2128
Mercury	116223-08-19 22:17 G	44170869.35	44170869.43	44170869.50	0.2669	0.1964
Venus	116225-03-01 23:58 G	44171429.36	44171429.50	44171429.65	0.2671	0.1137
Mercury	116236-08-21 16:17 G	44175620.06	44175620.18	44175620.29	0.2659	0.0193
Mercury	116239-02-22 14:22 G	44176535.07	44176535.10	44176535.13	0.2660	0.2602
Mercury	116249-08-24 09:34 G	44180370.81	44180370.90	44180371.00	0.2659	0.1359
Mercury	116252-02-25 17:15 G	44181286.07	44181286.22	44181286.37	0.2663	0.0315
Mercury	116269-08-20 02:08 G	44187671.51	44187671.59	44187671.68	0.2660	0.1666
Mercury	116282-08-22 20:08 G	44192422.23	44192422.34	44192422.45	0.2663	0.0047
Mercury	116285-02-22 18:41 G	44193337.22	44193337.28	44193337.35	0.2665	0.2382

Mercury	116295-08-25 14:36 G	44197173.03	44197173.11	44197173.19	0.2669	0.1820
Mercury	116298-02-25 23:44 G	44198088.36	44198088.49	44198088.63	0.2675	0.1085
Mercury	116315-08-22 06:27 G	44204473.68	44204473.77	44204473.87	0.2668	0.1352
Mercury	116328-08-24 01:39 G	44209224.46	44209224.57	44209224.69	0.2671	0.0437
Mercury	116331-02-25 02:36 G	44210139.49	44210139.61	44210139.73	0.2673	0.1483
Mercury	116341-08-26 20:36 G	44213975.31	44213975.36	44213975.41	0.2665	0.2391
Mercury	116344-02-28 08:08 G	44214890.74	44214890.84	44214890.94	0.2672	0.2007
Venus	116346-08-29 16:17 G	44215804.01	44215804.18	44215804.34	0.2659	0.0161
Mercury	116361-08-22 12:41 G	44221275.92	44221276.03	44221276.14	0.2671	0.0809
Mercury	116374-08-25 07:24 G	44226026.70	44226026.81	44226026.91	0.2664	0.0971
Mercury	116377-02-25 10:03 G	44226941.78	44226941.92	44226942.07	0.2666	0.0541
Mercury	116387-08-28 00:56 G	44230777.52	44230777.54	44230777.56	0.2655	0.2596
Mercury	116390-02-28 13:10 G	44231692.98	44231693.05	44231693.12	0.2663	0.2326
Mercury	116394-08-20 23:15 G	44233327.41	44233327.47	44233327.53	0.2671	0.2179
Mercury	116407-08-23 17:44 G	44238078.13	44238078.24	44238078.35	0.2661	0.0487
Mercury	116420-08-25 11:00 G	44242828.86	44242828.96	44242829.07	0.2658	0.1207
Mercury	116423-02-26 14:08 G	44243743.94	44243744.09	44243744.24	0.2662	0.0225
Mercury	116440-08-21 03:48 G	44250129.58	44250129.66	44250129.74	0.2660	0.1849
Mercury	116453-08-23 21:20 G	44254880.28	44254880.39	44254880.51	0.2662	0.0346
Venus	116460-03-05 00:41 G	44257265.41	44257265.53	44257265.66	0.2679	0.1556
Mercury	116466-08-26 15:48 G	44259631.07	44259631.16	44259631.25	0.2667	0.1538
Venus	116468-03-02 21:05 G	44260185.24	44260185.38	44260185.52	0.2677	0.1111
Mercury	116469-02-26 19:53 G	44260546.18	44260546.33	44260546.48	0.2672	0.0272
Mercury	116486-08-22 07:53 G	44266931.74	44266931.83	44266931.91	0.2666	0.1704
Mercury	116499-08-25 02:36 G	44271682.50	44271682.61	44271682.72	0.2672	0.0167
Mercury	116502-02-25 22:46 G	44272597.36	44272597.45	44272597.55	0.2673	0.2059
Mercury	116512-08-27 21:48 G	44276433.34	44276433.41	44276433.48	0.2667	0.2064
Mercury	116515-03-01 04:32 G	44277348.56	44277348.69	44277348.82	0.2672	0.1171
Mercury	116532-08-23 13:39 G	44283733.97	44283734.07	44283734.17	0.2674	0.1230
Mercury	116545-08-26 08:36 G	44288484.75	44288484.86	44288484.97	0.2666	0.0769

Mercury	116548-02-27 06:41 G	44289399.65	44289399.78	44289399.92	0.2668	0.1157
Mercury	116558-08-29 02:36 G	44293235.56	44293235.61	44293235.66	0.2657	0.2322
Mercury	116561-03-01 10:17 G	44294150.81	44294150.93	44294151.04	0.2662	0.1707
Mercury	116565-08-22 00:12 G	44295785.48	44295785.51	44295785.55	0.2673	0.2488
Mercury	116578-08-24 19:10 G	44300536.19	44300536.30	44300536.41	0.2665	0.0727
Venus	116581-09-01 17:58 G	44301640.23	44301640.25	44301640.28	0.2666	0.2609
Venus	116589-08-30 15:34 G	44304560.01	44304560.15	44304560.29	0.2667	0.0774
Mercury	116591-08-27 12:56 G	44305286.93	44305287.04	44305287.14	0.2657	0.0998
Mercury	116594-02-27 11:15 G	44306201.83	44306201.97	44306202.12	0.2660	0.0875
Mercury	116604-08-30 06:27 G	44310037.74	44310037.77	44310037.80	0.2661	0.2525
Mercury	116607-03-03 14:22 G	44310953.01	44310953.10	44310953.19	0.2667	0.2127
Mercury	116611-08-24 05:15 G	44312587.66	44312587.72	44312587.79	0.2663	0.2173
Mercury	116624-08-25 22:46 G	44317338.34	44317338.45	44317338.57	0.2661	0.0486
Mercury	116637-08-28 17:00 G	44322089.11	44322089.21	44322089.31	0.2665	0.1167
Mercury	116640-02-29 16:17 G	44323004.04	44323004.18	44323004.33	0.2668	0.0545
Mercury	116657-08-24 09:05 G	44329389.81	44329389.88	44329389.95	0.2665	0.2033
Mercury	116670-08-27 03:34 G	44334140.54	44334140.65	44334140.76	0.2669	0.0106
Mercury	116683-08-29 23:00 G	44338891.37	44338891.46	44338891.54	0.2671	0.1685
Mercury	116686-03-02 00:41 G	44339806.39	44339806.53	44339806.68	0.2673	0.0471
Venus	116703-03-08 23:00 G	44346021.34	44346021.46	44346021.59	0.2669	0.1699
Mercury	116703-08-26 14:22 G	44346192.01	44346192.10	44346192.19	0.2674	0.1538
Venus	116711-03-06 15:20 G	44348941.05	44348941.14	44348941.23	0.2674	0.2156
Mercury	116716-08-28 09:48 G	44350942.80	44350942.91	44350943.02	0.2669	0.0446
Mercury	116719-03-01 03:34 G	44351857.55	44351857.65	44351857.75	0.2668	0.1914
Mercury	116729-08-31 04:17 G	44355693.61	44355693.68	44355693.74	0.2661	0.2169
Mercury	116732-03-03 07:24 G	44356608.68	44356608.81	44356608.94	0.2664	0.1296
Mercury	116749-08-26 20:22 G	44362994.24	44362994.35	44362994.45	0.2667	0.0919
Mercury	116762-08-29 14:36 G	44367745.00	44367745.11	44367745.22	0.2660	0.0700
Mercury	116765-03-01 08:51 G	44368659.75	44368659.87	44368660.00	0.2659	0.1482
Mercury	116775-09-01 07:53 G	44372495.78	44372495.83	44372495.88	0.2659	0.2389

Mercury	116778-03-04 11:15 G	44373410.85	44373410.97	44373411.09	0.2664	0.1565
Mercury	116782-08-25 06:41 G	44375045.73	44375045.78	44375045.82	0.2667	0.2457
Mercury	116795-08-28 00:27 G	44379796.41	44379796.52	44379796.63	0.2660	0.0663
Mercury	116808-08-29 18:12 G	44384547.16	44384547.26	44384547.37	0.2664	0.0877
Mercury	116811-03-02 13:10 G	44385461.91	44385462.05	44385462.18	0.2666	0.1104
Mercury	116824-03-04 17:44 G	44390213.15	44390213.24	44390213.33	0.2674	0.2146
Venus	116824-09-03 17:29 G	44390396.13	44390396.23	44390396.34	0.2661	0.1973
Mercury	116828-08-25 10:17 G	44391847.87	44391847.93	44391848.00	0.2663	0.2211
Venus	116832-09-01 11:44 G	44393315.85	44393315.99	44393316.12	0.2668	0.1106
Mercury	116841-08-28 04:46 G	44396598.59	44396598.70	44396598.81	0.2668	0.0478
Mercury	116854-08-30 23:44 G	44401349.40	44401349.49	44401349.59	0.2671	0.1439
Mercury	116857-03-02 20:36 G	44402264.22	44402264.36	44402264.51	0.2674	0.0164
Mercury	116874-08-26 15:05 G	44408650.05	44408650.13	44408650.22	0.2672	0.1804
Mercury	116887-08-29 10:46 G	44413400.83	44413400.95	44413401.06	0.2673	0.0073
Mercury	116890-02-28 23:58 G	44414315.49	44414315.50	44414315.52	0.2670	0.2638
Mercury	116900-09-01 05:29 G	44418151.66	44418151.73	44418151.81	0.2663	0.1986
Mercury	116903-03-05 04:17 G	44419066.54	44419066.68	44419066.82	0.2666	0.0661
Mercury	116920-08-27 21:20 G	44425452.29	44425452.39	44425452.49	0.2672	0.1242
Mercury	116933-08-30 16:03 G	44430203.06	44430203.17	44430203.28	0.2663	0.0515
Mercury	116936-03-02 06:27 G	44431117.67	44431117.77	44431117.88	0.2662	0.1841
Venus	116946-03-10 05:58 G	44434777.63	44434777.75	44434777.87	0.2665	0.1888
Mercury	116946-09-02 09:34 G	44434953.84	44434953.90	44434953.97	0.2657	0.2159
Mercury	116949-03-05 08:51 G	44435868.72	44435868.87	44435869.01	0.2660	0.0896
Mercury	116953-08-26 07:39 G	44437503.81	44437503.82	44437503.83	0.2670	0.2650
Mercury	116966-08-29 02:08 G	44442254.49	44442254.59	44442254.70	0.2662	0.0969
Mercury	116979-08-31 19:39 G	44447005.21	44447005.32	44447005.43	0.2660	0.0767
Mercury	116982-03-03 10:17 G	44447919.81	44447919.93	44447920.05	0.2661	0.1550
Mercury	116992-09-02 13:53 G	44451756.03	44451756.08	44451756.13	0.2666	0.2366
Mercury	116995-03-06 13:53 G	44452670.96	44452671.08	44452671.21	0.2669	0.1324
Mercury	116999-08-27 11:58 G	44454305.95	44454306.00	44454306.06	0.2662	0.2351

118TH MILLENNIUM CE

This is a list of transits visible from Moon in the 118th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	117012-08-30 05:58	G	44459056.64	44459056.75	44459056.86	0.2665	0.0802	
Mercury	117025-09-02 00:41	G	44463807.43	44463807.53	44463807.63	0.2670	0.1119	
Mercury	117028-03-04 16:46	G	44464722.06	44464722.20	44464722.33	0.2671	0.0994	
Mercury	117041-03-07 22:32	G	44469473.37	44469473.44	44469473.50	0.2674	0.2382	
Mercury	117045-08-28 16:17	G	44471108.11	44471108.18	44471108.24	0.2670	0.2187	
Mercury	117058-08-31 11:15	G	44475858.86	44475858.97	44475859.09	0.2673	0.0276	
Mercury	117071-09-03 06:41	G	44480609.69	44480609.78	44480609.87	0.2668	0.1631	
Mercury	117074-03-06 01:10	G	44481524.40	44481524.55	44481524.70	0.2668	0.0123	
Venus	117075-09-04 11:29	G	44482071.82	44482071.98	44482072.13	0.2661	0.0825	
Mercury	117091-08-29 22:03	G	44487910.34	44487910.42	44487910.51	0.2675	0.1709	
Mercury	117104-09-01 17:15	G	44492661.11	44492661.22	44492661.33	0.2666	0.0333	
Mercury	117107-03-05 03:34	G	44493575.59	44493575.65	44493575.71	0.2663	0.2392	
Mercury	117117-09-04 11:15	G	44497411.90	44497411.97	44497412.05	0.2659	0.1900	
Mercury	117120-03-07 06:27	G	44498326.62	44498326.77	44498326.92	0.2660	0.0368	
Mercury	117137-08-31 03:34	G	44504712.55	44504712.65	44504712.75	0.2666	0.1191	
Mercury	117150-09-02 21:20	G	44509463.28	44509463.39	44509463.51	0.2659	0.0543	
Mercury	117153-03-05 07:53	G	44510377.75	44510377.83	44510377.92	0.2658	0.2156	
Mercury	117163-09-05 15:05	G	44514214.06	44514214.13	44514214.20	0.2663	0.2111	
Mercury	117166-03-08 10:32	G	44515128.80	44515128.94	44515129.08	0.2667	0.0767	

Mercury	117183-09-01 07:24 G	44521514.70	44521514.81	44521514.92	0.2662	0.0931
Venus	117189-03-12 11:00 G	44523533.85	44523533.96	44523534.07	0.2670	0.1909
Mercury	117196-09-03 01:39 G	44526265.46	44526265.57	44526265.68	0.2668	0.0721
Venus	117197-03-09 22:17 G	44526453.30	44526453.43	44526453.56	0.2661	0.1711
Mercury	117199-03-06 13:24 G	44527179.95	44527180.06	44527180.17	0.2668	0.1763
Mercury	117212-03-08 18:12 G	44531931.15	44531931.26	44531931.37	0.2674	0.1697
Mercury	117216-08-29 17:15 G	44533566.19	44533566.22	44533566.26	0.2667	0.2534
Mercury	117229-09-01 12:12 G	44538316.90	44538317.01	44538317.12	0.2672	0.0560
Mercury	117242-09-04 07:39 G	44543067.72	44543067.82	44543067.92	0.2672	0.1257
Mercury	117245-03-06 21:34 G	44543982.26	44543982.40	44543982.54	0.2671	0.0785
Mercury	117258-03-10 01:53 G	44548733.52	44548733.58	44548733.63	0.2666	0.2464
Mercury	117262-08-30 22:46 G	44550368.37	44550368.45	44550368.52	0.2675	0.1999
Mercury	117275-09-02 18:27 G	44555119.15	44555119.27	44555119.38	0.2671	0.0106
Mercury	117288-09-04 12:56 G	44559869.95	44559870.04	44559870.12	0.2662	0.1751
Mercury	117291-03-08 03:48 G	44560784.51	44560784.66	44560784.81	0.2662	0.0046
Mercury	117308-09-01 04:46 G	44567170.60	44567170.70	44567170.80	0.2669	0.1374
Venus	117318-09-06 21:20 G	44570828.23	44570828.39	44570828.56	0.2659	0.0501
Mercury	117321-09-03 23:00 G	44571921.35	44571921.46	44571921.58	0.2662	0.0256
Mercury	117334-09-06 16:46 G	44576672.12	44576672.20	44576672.27	0.2659	0.1993
Mercury	117337-03-09 07:39 G	44577586.67	44577586.82	44577586.97	0.2662	0.0244
Mercury	117354-09-02 09:05 G	44583972.77	44583972.88	44583972.98	0.2662	0.1142
Mercury	117367-09-05 02:51 G	44588723.51	44588723.62	44588723.73	0.2664	0.0451
Mercury	117370-03-07 10:03 G	44589637.85	44589637.92	44589638.00	0.2664	0.2294
Mercury	117380-09-06 21:34 G	44593474.35	44593474.40	44593474.46	0.2669	0.2320
Mercury	117383-03-10 14:08 G	44594388.95	44594389.09	44594389.23	0.2671	0.0782
Mercury	117387-08-31 18:41 G	44596024.27	44596024.28	44596024.29	0.2664	0.2646
Mercury	117400-09-03 13:10 G	44600774.94	44600775.05	44600775.16	0.2670	0.0973
Mercury	117413-09-06 08:08 G	44605525.74	44605525.84	44605525.95	0.2672	0.1010
Mercury	117416-03-08 17:29 G	44606440.11	44606440.23	44606440.35	0.2671	0.1419
Mercury	117429-03-11 22:32 G	44611191.33	44611191.44	44611191.56	0.2669	0.1677

Venus	117432-03-14 05:29 G	44612289.62	44612289.73	44612289.84	0.2676	0.1792
Mercury	117433-09-01 23:29 G	44612826.42	44612826.48	44612826.53	0.2673	0.2308
Venus	117440-03-12 00:56 G	44615209.41	44615209.54	44615209.68	0.2671	0.1348
Mercury	117446-09-04 18:56 G	44617577.18	44617577.29	44617577.40	0.2675	0.0462
Mercury	117459-09-07 14:08 G	44622328.00	44622328.09	44622328.19	0.2666	0.1565
Mercury	117462-03-10 00:56 G	44623242.40	44623242.54	44623242.69	0.2664	0.0638
Mercury	117475-03-13 04:03 G	44627993.59	44627993.67	44627993.74	0.2661	0.2248
Mercury	117479-09-03 05:29 G	44629628.65	44629628.73	44629628.82	0.2675	0.1782
Mercury	117492-09-05 00:27 G	44634379.41	44634379.52	44634379.64	0.2665	0.0087
Mercury	117505-09-08 18:27 G	44639130.18	44639130.27	44639130.36	0.2659	0.1722
Mercury	117508-03-11 05:29 G	44640044.59	44640044.73	44640044.88	0.2658	0.0408
Mercury	117521-03-14 08:08 G	44644795.82	44644795.84	44644795.85	0.2667	0.2641
Mercury	117525-09-04 10:32 G	44646430.84	44646430.94	44646431.04	0.2665	0.1446
Mercury	117538-09-07 04:17 G	44651181.57	44651181.68	44651181.80	0.2661	0.0347
Mercury	117551-09-09 22:32 G	44655932.37	44655932.44	44655932.52	0.2668	0.1926
Venus	117553-09-11 03:48 G	44656664.64	44656664.66	44656664.69	0.2671	0.2633
Mercury	117554-03-12 10:46 G	44656846.81	44656846.95	44656847.10	0.2668	0.0056
Venus	117561-09-09 00:41 G	44659584.38	44659584.53	44659584.69	0.2670	0.0359
Mercury	117571-09-05 14:22 G	44663233.00	44663233.10	44663233.20	0.2666	0.1252
Mercury	117584-09-07 09:05 G	44667983.77	44667983.88	44667983.99	0.2671	0.0663
Mercury	117587-03-10 13:53 G	44668898.00	44668898.08	44668898.16	0.2668	0.2223
Mercury	117597-09-10 04:32 G	44672734.65	44672734.69	44672734.72	0.2672	0.2504
Mercury	117600-03-12 18:56 G	44673649.15	44673649.29	44673649.42	0.2672	0.1073
Mercury	117617-09-05 19:39 G	44680035.21	44680035.32	44680035.43	0.2674	0.0714
Mercury	117630-09-08 15:20 G	44684786.04	44684786.14	44684786.24	0.2671	0.1156
Mercury	117633-03-10 22:17 G	44685700.30	44685700.43	44685700.55	0.2666	0.1374
Mercury	117646-03-14 01:24 G	44690451.45	44690451.56	44690451.66	0.2662	0.1797
Mercury	117650-09-04 06:12 G	44692086.70	44692086.76	44692086.82	0.2677	0.2221
Mercury	117663-09-07 01:39 G	44696837.46	44696837.57	44696837.69	0.2669	0.0146
Venus	117675-03-15 23:44 G	44701045.35	44701045.49	44701045.64	0.2668	0.1056

Mercury	117676-09-08 19:53 G	44701588.24	44701588.33	44701588.43	0.2661	0.1481
Mercury	117679-03-12 03:20 G	44702502.50	44702502.64	44702502.78	0.2658	0.0855
Mercury	117692-03-14 05:15 G	44707253.62	44707253.72	44707253.81	0.2662	0.2013
Mercury	117696-09-04 11:44 G	44708888.90	44708888.99	44708889.08	0.2667	0.1653
Mercury	117709-09-08 05:58 G	44713639.63	44713639.75	44713639.87	0.2661	0.0063
Mercury	117722-09-10 23:44 G	44718390.40	44718390.49	44718390.58	0.2664	0.1715
Mercury	117725-03-13 07:39 G	44719304.67	44719304.82	44719304.96	0.2665	0.0469
Mercury	117738-03-16 11:58 G	44724055.97	44724056.00	44724056.03	0.2672	0.2603
Mercury	117742-09-06 15:48 G	44725691.06	44725691.16	44725691.26	0.2663	0.1373
Mercury	117755-09-09 10:03 G	44730441.81	44730441.92	44730442.04	0.2670	0.0270
Mercury	117768-09-11 05:15 G	44735192.66	44735192.72	44735192.78	0.2672	0.2263
Mercury	117771-03-14 15:05 G	44736106.99	44736107.13	44736107.27	0.2672	0.0398
Mercury	117788-09-06 20:36 G	44742493.25	44742493.36	44742493.46	0.2674	0.1042
Venus	117796-09-12 01:24 G	44745420.48	44745420.56	44745420.64	0.2666	0.2275
Mercury	117801-09-10 16:03 G	44747244.06	44747244.17	44747244.28	0.2674	0.0823
Mercury	117804-03-12 18:55 G	44748158.19	44748158.29	44748158.38	0.2669	0.1960
Venus	117804-09-10 21:05 G	44748340.23	44748340.38	44748340.53	0.2673	0.0430
Mercury	117817-03-15 22:31 G	44752909.31	44752909.44	44752909.57	0.2663	0.1133
Mercury	117821-09-06 06:55 G	44754544.75	44754544.79	44754544.83	0.2677	0.2480
Mercury	117834-09-09 02:36 G	44759295.50	44759295.61	44759295.73	0.2674	0.0538
Mercury	117847-09-11 21:19 G	44764046.29	44764046.39	44764046.49	0.2663	0.1319
Mercury	117850-03-14 00:55 G	44764960.41	44764960.54	44764960.67	0.2658	0.1267
Mercury	117863-03-17 02:51 G	44769711.49	44769711.62	44769711.75	0.2659	0.1336
Mercury	117867-09-07 12:55 G	44771346.96	44771347.04	44771347.12	0.2671	0.1844
Mercury	117880-09-09 07:24 G	44776097.69	44776097.81	44776097.92	0.2663	0.0259
Mercury	117893-09-12 01:10 G	44780848.46	44780848.55	44780848.64	0.2662	0.1546
Mercury	117896-03-14 04:46 G	44781762.57	44781762.70	44781762.84	0.2660	0.0999
Mercury	117909-03-18 08:36 G	44786513.76	44786513.86	44786513.96	0.2671	0.1917
Mercury	117913-09-08 17:00 G	44788149.12	44788149.21	44788149.30	0.2664	0.1657
Venus	117918-03-19 03:19 G	44789801.47	44789801.64	44789801.80	0.2661	0.0787

Mercury	117926-09-11 11:15 G	44792899.85	44792899.97	44792900.08	0.2667	0.0053
Mercury	117939-09-14 06:12 G	44797650.69	44797650.76	44797650.84	0.2673	0.1936
Mercury	117942-03-16 11:58 G	44798564.86	44798565.00	44798565.14	0.2670	0.0354
Mercury	117959-09-09 21:19 G	44804951.30	44804951.39	44804951.49	0.2673	0.1456
Mercury	117972-09-11 17:00 G	44809702.10	44809702.21	44809702.32	0.2674	0.0601
Mercury	117975-03-14 15:48 G	44810616.11	44810616.16	44810616.20	0.2668	0.2490
Mercury	117985-09-14 12:27 G	44814452.97	44814453.02	44814453.06	0.2669	0.2397
Mercury	117988-03-16 19:53 G	44815367.18	44815367.33	44815367.47	0.2665	0.0433

119TH MILLENNIUM CE

This is a list of transits visible from Moon in the 119th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	118005-09-10 03:34 G		44821753.54	44821753.65	44821753.76	0.2675	0.0890	
Mercury	118018-09-12 22:31 G		44826504.34	44826504.44	44826504.55	0.2666	0.1121	
Mercury	118021-03-14 22:17 G		44827418.33	44827418.43	44827418.54	0.2658	0.1814	
Mercury	118031-09-15 16:31 G		44831255.17	44831255.19	44831255.20	0.2659	0.2625	
Mercury	118034-03-17 23:58 G		44832169.36	44832169.50	44832169.64	0.2659	0.0796	
Mercury	118038-09-08 13:53 G		44833805.02	44833805.08	44833805.14	0.2675	0.2237	
Venus	118047-09-12 19:39 G		44837096.17	44837096.32	44837096.46	0.2671	0.0768	
Mercury	118051-09-11 08:36 G		44838555.74	44838555.86	44838555.97	0.2664	0.0442	
Mercury	118064-09-13 02:22 G		44843306.50	44843306.60	44843306.70	0.2662	0.1233	
Mercury	118067-03-16 02:22 G		44844220.49	44844220.60	44844220.71	0.2658	0.1665	
Mercury	118080-03-18 05:15 G		44848971.59	44848971.72	44848971.84	0.2669	0.1366	

Mercury	118084-09-08 18:12 G	44850607.18	44850607.26	44850607.33	0.2665	0.2011
Mercury	118097-09-11 12:27 G	44855357.90	44855358.02	44855358.13	0.2666	0.0187
Mercury	118110-09-15 07:24 G	44860108.71	44860108.81	44860108.90	0.2673	0.1538
Mercury	118113-03-17 08:51 G	44861022.74	44861022.87	44861023.01	0.2670	0.1062
Mercury	118126-03-20 13:24 G	44865773.99	44865774.06	44865774.13	0.2670	0.2345
Mercury	118130-09-10 22:17 G	44867409.35	44867409.43	44867409.52	0.2671	0.1766
Mercury	118143-09-13 17:58 G	44872160.13	44872160.25	44872160.36	0.2676	0.0309
Mercury	118156-09-15 13:24 G	44876910.99	44876911.06	44876911.13	0.2670	0.2124
Mercury	118159-03-18 16:46 G	44877825.06	44877825.20	44877825.35	0.2666	0.0108
Venus	118161-03-20 08:22 G	44878557.70	44878557.85	44878558.00	0.2659	0.1145
Mercury	118176-09-11 04:31 G	44884211.58	44884211.69	44884211.79	0.2676	0.1119
Mercury	118189-09-13 23:43 G	44888962.38	44888962.49	44888962.60	0.2669	0.0755
Mercury	118192-03-15 20:07 G	44889876.29	44889876.34	44889876.39	0.2659	0.2474
Mercury	118202-09-17 17:58 G	44893713.21	44893713.25	44893713.29	0.2660	0.2483
Mercury	118205-03-19 21:19 G	44894627.24	44894627.39	44894627.54	0.2657	0.0344
Mercury	118209-09-10 14:51 G	44896263.10	44896263.12	44896263.14	0.2676	0.2624
Mercury	118222-09-13 09:48 G	44901013.80	44901013.91	44901014.02	0.2667	0.0601
Mercury	118235-09-16 03:48 G	44905764.55	44905764.66	44905764.76	0.2662	0.0919
Mercury	118238-03-17 23:43 G	44906678.42	44906678.49	44906678.57	0.2657	0.2251
Mercury	118251-03-21 02:07 G	44911429.46	44911429.59	44911429.73	0.2665	0.0771
Mercury	118255-09-11 19:24 G	44913065.25	44913065.31	44913065.37	0.2665	0.2249
Mercury	118268-09-13 13:24 G	44917815.95	44917816.06	44917816.18	0.2666	0.0477
Mercury	118281-09-16 08:22 G	44922566.75	44922566.85	44922566.95	0.2671	0.1280
Mercury	118284-03-18 05:43 G	44923480.63	44923480.74	44923480.86	0.2668	0.1601
Venus	118290-09-14 23:00 G	44925852.31	44925852.46	44925852.60	0.2665	0.1091
Mercury	118297-03-21 10:46 G	44928231.84	44928231.95	44928232.06	0.2669	0.1686
Mercury	118301-09-12 23:15 G	44929867.40	44929867.47	44929867.55	0.2673	0.1981
Mercury	118314-09-15 19:10 G	44934618.18	44934618.30	44934618.41	0.2677	0.0051
Mercury	118327-09-18 14:51 G	44939369.04	44939369.12	44939369.19	0.2667	0.1917
Mercury	118330-03-20 13:53 G	44940282.94	44940283.08	44940283.22	0.2659	0.0665

Mercury	118343-03-23 15:34 G	44945034.06	44945034.15	44945034.24	0.2659	0.2032
Mercury	118347-09-14 05:58 G	44946669.65	44946669.75	44946669.85	0.2674	0.1305
Mercury	118360-09-16 00:27 G	44951420.40	44951420.52	44951420.63	0.2663	0.0393
Mercury	118373-09-18 18:12 G	44956171.19	44956171.26	44956171.33	0.2664	0.2070
Mercury	118376-03-20 17:29 G	44957085.08	44957085.23	44957085.37	0.2661	0.0431
Mercury	118389-03-23 21:19 G	44961836.36	44961836.39	44961836.43	0.2672	0.2584
Mercury	118393-09-14 09:34 G	44963471.79	44963471.90	44963472.00	0.2667	0.1133
Venus	118404-03-22 03:05 G	44967313.46	44967313.63	44967313.79	0.2659	0.0394
Mercury	118406-09-17 04:31 G	44968222.58	44968222.69	44968222.80	0.2672	0.0600
Mercury	118419-09-20 00:12 G	44972973.50	44972973.51	44972973.52	0.2673	0.2660
Mercury	118422-03-22 01:53 G	44973887.44	44973887.58	44973887.72	0.2668	0.0574
Mercury	118439-09-15 15:19 G	44980274.03	44980274.14	44980274.25	0.2677	0.0608
Mercury	118452-09-17 11:00 G	44985024.85	44985024.96	44985025.06	0.2668	0.1213
Mercury	118455-03-20 05:15 G	44985938.62	44985938.72	44985938.82	0.2657	0.1927
Mercury	118468-03-22 06:27 G	44990689.63	44990689.77	44990689.90	0.2658	0.0895
Mercury	118472-09-13 01:53 G	44992325.51	44992325.58	44992325.65	0.2675	0.2102
Mercury	118485-09-15 20:22 G	44997076.23	44997076.35	44997076.47	0.2664	0.0192
Mercury	118498-09-18 14:22 G	45001827.00	45001827.10	45001827.20	0.2667	0.1333
Mercury	118501-03-21 08:51 G	45002740.76	45002740.87	45002740.98	0.2662	0.1728
Mercury	118514-03-24 12:41 G	45007491.91	45007492.03	45007492.14	0.2671	0.1539
Mercury	118518-09-15 05:29 G	45009127.65	45009127.73	45009127.81	0.2668	0.1939
Mercury	118531-09-18 00:41 G	45013878.41	45013878.53	45013878.64	0.2675	0.0083
Venus	118533-09-17 09:48 G	45014608.76	45014608.91	45014609.07	0.2675	0.0399
Mercury	118544-09-19 20:22 G	45018629.27	45018629.35	45018629.43	0.2674	0.1917
Mercury	118547-03-22 17:15 G	45019543.09	45019543.22	45019543.36	0.2666	0.0754
Mercury	118560-03-24 19:53 G	45024294.25	45024294.33	45024294.40	0.2659	0.2285
Mercury	118564-09-15 11:29 G	45025929.88	45025929.98	45025930.08	0.2678	0.1373
Mercury	118577-09-18 06:55 G	45030680.68	45030680.79	45030680.90	0.2669	0.0650
Mercury	118590-09-21 00:41 G	45035431.47	45035431.53	45035431.60	0.2661	0.2194
Mercury	118593-03-22 21:19 G	45036345.25	45036345.39	45036345.54	0.2657	0.0454

Mercury	118606-03-26 23:43 G	45041096.45	45041096.49	45041096.54	0.2666	0.2532
Mercury	118610-09-17 16:17 G	45042732.07	45042732.18	45042732.29	0.2665	0.0953
Mercury	118623-09-20 10:17 G	45047482.82	45047482.93	45047483.04	0.2668	0.0763
Mercury	118636-09-22 05:43 G	45052233.71	45052233.74	45052233.76	0.2673	0.2589
Mercury	118639-03-25 04:03 G	45053147.53	45053147.67	45053147.81	0.2669	0.0282
Mercury	118643-09-16 01:24 G	45054783.54	45054783.56	45054783.58	0.2669	0.2607
Venus	118647-03-25 09:05 G	45056069.76	45056069.88	45056070.01	0.2668	0.1601
Venus	118655-03-23 01:39 G	45058989.49	45058989.57	45058989.64	0.2659	0.2364
Mercury	118656-09-17 20:36 G	45059534.25	45059534.36	45059534.48	0.2677	0.0664
Mercury	118669-09-20 16:31 G	45064285.09	45064285.19	45064285.29	0.2674	0.1326
Mercury	118672-03-22 08:36 G	45065198.76	45065198.86	45065198.97	0.2664	0.1868
Mercury	118685-03-25 10:46 G	45069949.82	45069949.95	45069950.09	0.2657	0.1021
Mercury	118689-09-16 07:24 G	45071585.74	45071585.81	45071585.88	0.2679	0.2057
Mercury	118702-09-20 02:51 G	45076336.51	45076336.62	45076336.74	0.2670	0.0061
Mercury	118715-09-22 20:51 G	45081087.28	45081087.37	45081087.47	0.2662	0.1566
Mercury	118718-03-24 12:41 G	45082000.92	45082001.03	45082001.14	0.2656	0.1611
Mercury	118731-03-27 15:05 G	45086752.00	45086752.13	45086752.25	0.2667	0.1353
Mercury	118735-09-18 12:12 G	45088387.92	45088388.01	45088388.10	0.2666	0.1701
Mercury	118748-09-20 06:12 G	45093138.65	45093138.76	45093138.88	0.2670	0.0134
Mercury	118761-09-23 01:53 G	45097889.50	45097889.58	45097889.66	0.2675	0.1937
Mercury	118764-03-24 19:39 G	45098803.19	45098803.32	45098803.46	0.2668	0.0905
Venus	118776-09-19 02:51 G	45103364.48	45103364.62	45103364.77	0.2668	0.1195
Mercury	118777-03-27 23:43 G	45103554.43	45103554.49	45103554.55	0.2665	0.2393
Mercury	118781-09-18 16:46 G	45105190.10	45105190.20	45105190.29	0.2678	0.1426
Mercury	118794-09-21 12:41 G	45109940.92	45109941.03	45109941.14	0.2674	0.0741
Mercury	118807-09-24 07:39 G	45114691.78	45114691.82	45114691.87	0.2664	0.2425
Mercury	118810-03-26 02:07 G	45115605.45	45115605.59	45115605.74	0.2656	0.0271
Mercury	118814-09-17 03:19 G	45117241.63	45117241.64	45117241.66	0.2680	0.2643
Mercury	118823-03-29 03:05 G	45120356.59	45120356.63	45120356.66	0.2661	0.2566
Mercury	118827-09-19 22:46 G	45121992.34	45121992.45	45121992.56	0.2670	0.0823

Mercury	118840-09-21 17:00 G	45126743.10	45126743.21	45126743.31	0.2663	0.1001
Mercury	118843-03-24 04:03 G	45127656.64	45127656.67	45127656.70	0.2655	0.2583
Mercury	118853-09-24 11:15 G	45131493.94	45131493.97	45131494.00	0.2670	0.2574
Mercury	118856-03-26 06:27 G	45132407.63	45132407.77	45132407.91	0.2667	0.0062
Mercury	118860-09-17 07:53 G	45134043.78	45134043.83	45134043.89	0.2667	0.2321
Mercury	118873-09-20 02:22 G	45138794.48	45138794.60	45138794.71	0.2670	0.0692
Mercury	118886-09-22 22:03 G	45143545.32	45143545.42	45143545.52	0.2676	0.1400
Mercury	118889-03-24 11:29 G	45144458.88	45144458.98	45144459.08	0.2666	0.1848
Venus	118890-03-26 02:07 G	45144825.43	45144825.59	45144825.76	0.2656	0.0130
Mercury	118902-03-28 14:51 G	45149209.99	45149210.12	45149210.26	0.2663	0.1039
Mercury	118906-09-19 12:27 G	45150845.95	45150846.02	45150846.10	0.2680	0.2032
Mercury	118919-09-22 08:51 G	45155596.75	45155596.87	45155596.98	0.2675	0.0062
Mercury	118932-09-24 03:34 G	45160347.57	45160347.65	45160347.74	0.2665	0.1861
Mercury	118935-03-26 17:29 G	45161261.10	45161261.23	45161261.36	0.2654	0.1298
Mercury	118948-03-28 18:12 G	45166012.13	45166012.26	45166012.39	0.2660	0.1219
Mercury	118952-09-19 18:41 G	45167648.18	45167648.28	45167648.38	0.2670	0.1463
Mercury	118965-09-22 12:55 G	45172398.92	45172399.04	45172399.16	0.2665	0.0246
Mercury	118978-09-25 07:24 G	45177149.73	45177149.81	45177149.88	0.2671	0.2016
Mercury	118981-03-26 22:03 G	45178063.29	45178063.42	45178063.55	0.2666	0.0983
Mercury	118994-03-30 02:22 G	45182814.52	45182814.60	45182814.68	0.2668	0.2171
Mercury	118998-09-20 22:17 G	45184450.33	45184450.43	45184450.53	0.2672	0.1355

120TH MILLENNIUM CE

This is a list of transits visible from Moon in the 120th millennium CE.

PLANET	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
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TRANSIT

TIME

Mercury	119011-09-24 17:58 G	45189201.14	45189201.25	45189201.36	0.2678	0.0680
Venus	119019-09-22 14:51 G	45192120.97	45192121.12	45192121.27	0.2677	0.0562
Mercury	119024-09-26 13:53 G	45193952.06	45193952.08	45193952.10	0.2670	0.2620
Mercury	119027-03-29 06:12 G	45194865.62	45194865.76	45194865.90	0.2661	0.0115
Mercury	119044-09-22 04:46 G	45201252.58	45201252.70	45201252.81	0.2677	0.0739
Mercury	119057-09-24 23:43 G	45206003.39	45206003.49	45206003.60	0.2667	0.1227
Mercury	119060-03-26 09:19 G	45206916.82	45206916.89	45206916.96	0.2654	0.2300
Mercury	119073-03-29 09:48 G	45211667.77	45211667.91	45211668.06	0.2657	0.0106
Mercury	119077-09-20 14:36 G	45213304.04	45213304.11	45213304.18	0.2672	0.2077
Mercury	119090-09-23 09:05 G	45218054.77	45218054.88	45218055.00	0.2666	0.0443
Mercury	119103-09-27 03:19 G	45222805.54	45222805.64	45222805.74	0.2669	0.1392
Mercury	119106-03-28 13:10 G	45223718.96	45223719.05	45223719.14	0.2662	0.2048
Mercury	119119-03-31 17:00 G	45228470.08	45228470.21	45228470.35	0.2668	0.0833
Mercury	119123-09-22 18:12 G	45230106.18	45230106.26	45230106.34	0.2669	0.1935
Venus	119133-03-29 05:43 G	45233581.60	45233581.74	45233581.89	0.2667	0.0587
Mercury	119136-09-24 13:39 G	45234856.95	45234857.07	45234857.18	0.2677	0.0166
Mercury	119149-09-27 09:34 G	45239607.83	45239607.90	45239607.98	0.2675	0.1984
Mercury	119152-03-28 21:34 G	45240521.27	45240521.40	45240521.53	0.2663	0.1162
Mercury	119165-03-31 23:58 G	45245272.39	45245272.50	45245272.62	0.2658	0.1587
Mercury	119169-09-22 23:58 G	45246908.41	45246908.50	45246908.60	0.2680	0.1451
Mercury	119182-09-25 19:53 G	45251659.22	45251659.33	45251659.44	0.2672	0.0514
Mercury	119195-09-28 14:22 G	45256410.04	45256410.10	45256410.16	0.2663	0.2275
Mercury	119198-03-30 02:07 G	45257323.46	45257323.59	45257323.73	0.2653	0.0860
Mercury	119211-04-02 03:34 G	45262074.55	45262074.65	45262074.75	0.2663	0.1830
Mercury	119215-09-24 05:29 G	45263710.62	45263710.73	45263710.84	0.2669	0.1030
Mercury	119228-09-25 23:43 G	45268461.37	45268461.49	45268461.60	0.2666	0.0738
Mercury	119241-09-28 18:27 G	45273212.23	45273212.27	45273212.31	0.2673	0.2485
Mercury	119244-03-30 07:39 G	45274125.68	45274125.82	45274125.96	0.2666	0.0420

Mercury	119248-09-21 14:36 G	45275762.07	45275762.11	45275762.14	0.2668	0.2540
Mercury	119261-09-24 09:05 G	45280512.77	45280512.88	45280512.99	0.2674	0.0898
Venus	119262-09-23 14:22 G	45280876.93	45280877.10	45280877.26	0.2667	0.0068
Mercury	119274-09-27 05:00 G	45285263.61	45285263.71	45285263.81	0.2677	0.1224
Mercury	119277-03-28 12:41 G	45286176.96	45286177.03	45286177.09	0.2665	0.2336
Mercury	119290-03-31 15:48 G	45290928.02	45290928.16	45290928.30	0.2661	0.0434
Mercury	119294-09-22 19:10 G	45292564.24	45292564.30	45292564.37	0.2681	0.2204
Mercury	119307-09-26 15:34 G	45297315.04	45297315.15	45297315.27	0.2677	0.0262
Mercury	119320-09-28 10:46 G	45302065.87	45302065.95	45302066.04	0.2667	0.1746
Mercury	119323-03-30 18:41 G	45302979.18	45302979.28	45302979.39	0.2653	0.1732
Mercury	119336-04-01 19:10 G	45307730.16	45307730.30	45307730.44	0.2658	0.0627
Mercury	119340-09-24 01:39 G	45309366.47	45309366.57	45309366.66	0.2674	0.1626
Mercury	119353-09-26 20:07 G	45314117.22	45314117.34	45314117.46	0.2665	0.0084
Mercury	119366-09-29 14:22 G	45318868.02	45318868.10	45318868.18	0.2670	0.1867
Mercury	119369-03-30 22:46 G	45319781.34	45319781.45	45319781.57	0.2662	0.1506
Venus	119376-03-30 11:15 G	45322337.83	45322337.97	45322338.10	0.2658	0.1441
Mercury	119382-04-03 02:07 G	45324532.47	45324532.59	45324532.71	0.2668	0.1432
Mercury	119386-09-25 05:15 G	45326168.62	45326168.72	45326168.81	0.2670	0.1508
Mercury	119399-09-28 00:27 G	45330919.41	45330919.52	45330919.64	0.2677	0.0408
Mercury	119412-09-30 20:22 G	45335670.31	45335670.35	45335670.40	0.2676	0.2398
Mercury	119415-04-02 07:10 G	45336583.66	45336583.80	45336583.93	0.2664	0.0667
Mercury	119428-04-04 09:19 G	45341334.81	45341334.89	45341334.96	0.2657	0.2216
Mercury	119432-09-26 11:00 G	45342970.85	45342970.96	45342971.07	0.2680	0.1016
Mercury	119445-09-29 06:55 G	45347721.68	45347721.79	45347721.89	0.2673	0.1084
Mercury	119461-04-02 11:29 G	45353385.84	45353385.98	45353386.13	0.2654	0.0361
Mercury	119465-09-24 21:05 G	45355022.33	45355022.38	45355022.44	0.2679	0.2329
Mercury	119474-04-05 12:55 G	45358137.00	45358137.04	45358137.09	0.2662	0.2508
Mercury	119478-09-27 16:31 G	45359773.07	45359773.19	45359773.30	0.2669	0.0556
Mercury	119491-09-30 10:31 G	45364523.84	45364523.94	45364524.04	0.2667	0.1256
Mercury	119494-03-31 14:36 G	45365437.07	45365437.11	45365437.15	0.2656	0.2529

Venus	119505-09-26 10:17 G	45369632.78	45369632.93	45369633.08	0.2673	0.0954
Mercury	119507-04-04 17:00 G	45370188.07	45370188.21	45370188.35	0.2665	0.0104
Mercury	119511-09-27 01:24 G	45371824.49	45371824.56	45371824.63	0.2668	0.2060
Mercury	119524-09-28 20:07 G	45376575.22	45376575.34	45376575.46	0.2674	0.0384
Mercury	119537-10-01 15:48 G	45381326.07	45381326.16	45381326.25	0.2677	0.1693
Mercury	119540-04-01 22:02 G	45382239.32	45382239.42	45382239.52	0.2665	0.1796
Mercury	119553-04-05 01:10 G	45386990.42	45386990.55	45386990.68	0.2660	0.1033
Mercury	119557-09-27 06:12 G	45388626.67	45388626.76	45388626.84	0.2680	0.1768
Mercury	119570-09-30 02:22 G	45393377.49	45393377.60	45393377.72	0.2678	0.0278
Mercury	119583-10-02 21:48 G	45398128.35	45398128.41	45398128.47	0.2667	0.2195
Mercury	119586-04-03 04:17 G	45399041.55	45399041.68	45399041.80	0.2653	0.1229
Mercury	119599-04-06 04:46 G	45403792.58	45403792.70	45403792.83	0.2656	0.1315
Mercury	119603-09-28 12:26 G	45405428.92	45405429.02	45405429.13	0.2675	0.1186
Mercury	119616-09-30 06:55 G	45410179.68	45410179.79	45410179.91	0.2666	0.0632
Venus	119619-04-02 03:05 G	45411093.46	45411093.63	45411093.80	0.2652	0.0341
Mercury	119629-10-03 01:24 G	45414930.50	45414930.56	45414930.62	0.2668	0.2298
Mercury	119632-04-03 08:07 G	45415843.71	45415843.84	45415843.98	0.2660	0.1044
Mercury	119636-09-25 21:48 G	45417480.40	45417480.41	45417480.41	0.2670	0.2661
Mercury	119645-04-06 11:29 G	45420594.90	45420594.98	45420595.07	0.2669	0.2094
Mercury	119649-09-28 16:02 G	45422231.06	45422231.17	45422231.28	0.2670	0.1050
Mercury	119662-10-01 11:14 G	45426981.87	45426981.97	45426982.08	0.2675	0.0951
Mercury	119678-04-04 16:31 G	45432646.05	45432646.19	45432646.34	0.2664	0.0161
Mercury	119682-09-27 01:38 G	45434282.52	45434282.57	45434282.61	0.2677	0.2479
Mercury	119695-09-29 21:48 G	45439033.29	45439033.41	45439033.52	0.2681	0.0573
Mercury	119708-10-02 17:58 G	45443784.15	45443784.25	45443784.34	0.2673	0.1601
Mercury	119711-04-03 20:36 G	45444697.28	45444697.36	45444697.45	0.2655	0.2128
Mercury	119724-04-05 21:19 G	45449448.25	45449448.39	45449448.54	0.2654	0.0268
Mercury	119728-09-28 08:07 G	45451084.75	45451084.84	45451084.92	0.2681	0.1866
Mercury	119741-10-01 03:19 G	45455835.53	45455835.64	45455835.76	0.2669	0.0109
Venus	119748-09-27 15:19 G	45458389.00	45458389.14	45458389.28	0.2683	0.0729

Mercury	119754-10-03 21:48	G	45460586.32	45460586.41	45460586.49	0.2666	0.1756
Mercury	119757-04-04 00:26	G	45461499.42	45461499.52	45461499.61	0.2654	0.1969
Mercury	119770-04-07 02:22	G	45466250.47	45466250.60	45466250.74	0.2665	0.0723
Mercury	119774-09-29 12:26	G	45467886.92	45467887.02	45467887.11	0.2669	0.1609
Mercury	119787-10-02 07:10	G	45472637.68	45472637.80	45472637.92	0.2672	0.0195
Mercury	119800-10-05 02:50	G	45477388.55	45477388.62	45477388.69	0.2678	0.2146
Mercury	119803-04-06 07:38	G	45478301.70	45478301.82	45478301.95	0.2665	0.1250
Mercury	119816-04-08 10:31	G	45483052.83	45483052.94	45483053.05	0.2659	0.1669
Mercury	119820-09-30 17:00	G	45484689.11	45484689.21	45484689.32	0.2681	0.1313
Mercury	119833-10-03 13:38	G	45489439.96	45489440.07	45489440.18	0.2677	0.0853
Mercury	119846-10-06 08:22	G	45494190.83	45494190.85	45494190.87	0.2665	0.2607
Mercury	119849-04-06 13:10	G	45495103.91	45495104.05	45495104.19	0.2652	0.0775
Mercury	119853-09-29 03:34	G	45496740.62	45496740.65	45496740.68	0.2682	0.2579
Venus	119862-04-04 02:07	G	45499849.44	45499849.59	45499849.74	0.2662	0.0406
Mercury	119862-04-09 13:53	G	45499854.98	45499855.08	45499855.18	0.2659	0.1864
Mercury	119866-10-01 23:14	G	45501491.36	45501491.47	45501491.58	0.2669	0.0732
Mercury	119879-10-04 17:14	G	45506242.12	45506242.22	45506242.33	0.2669	0.1017
Mercury	119895-04-07 18:41	G	45511906.14	45511906.28	45511906.42	0.2665	0.0321
Mercury	119899-09-30 07:38	G	45513542.76	45513542.82	45513542.87	0.2671	0.2337
Mercury	119912-10-03 03:05	G	45518293.51	45518293.63	45518293.74	0.2678	0.0547
Mercury	119925-10-05 23:14	G	45523044.38	45523044.47	45523044.57	0.2679	0.1592
Mercury	119928-04-06 00:26	G	45523957.44	45523957.52	45523957.60	0.2661	0.2131
Mercury	119941-04-09 01:38	G	45528708.43	45528708.57	45528708.71	0.2653	0.0424
Mercury	119945-10-01 13:24	G	45530344.98	45530345.06	45530345.15	0.2682	0.1813
Mercury	119958-10-04 09:34	G	45535095.78	45535095.90	45535096.02	0.2673	0.0094
Mercury	119971-10-07 03:48	G	45539846.58	45539846.66	45539846.74	0.2665	0.1885
Mercury	119974-04-07 04:17	G	45540759.58	45540759.68	45540759.77	0.2653	0.1903
Mercury	119987-04-10 05:58	G	45545510.62	45545510.75	45545510.89	0.2664	0.0726
Venus	119991-09-30 18:26	G	45547145.10	45547145.27	45547145.43	0.2671	0.0058
Mercury	119991-10-02 18:26	G	45547147.17	45547147.27	45547147.37	0.2669	0.1411

121ST MILLENNIUM CE

This is a list of transits visible from Moon in the 121st millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	120004-10-04 12:55	G	45551897.92	45551898.04	45551898.16	0.2674	0.0214	
Mercury	120017-10-07 09:05	G	45556648.82	45556648.88	45556648.93	0.2678	0.2328	
Mercury	120020-04-07 11:43	G	45557561.86	45557561.99	45557562.11	0.2663	0.1111	
Mercury	120033-04-10 14:07	G	45562312.98	45562313.09	45562313.21	0.2658	0.1616	
Mercury	120037-10-02 23:14	G	45563949.36	45563949.47	45563949.58	0.2683	0.1052	
Mercury	120050-10-05 19:38	G	45568700.21	45568700.32	45568700.43	0.2675	0.0883	
Mercury	120066-04-08 16:46	G	45574364.06	45574364.20	45574364.34	0.2651	0.0664	
Mercury	120070-10-01 09:34	G	45576000.88	45576000.90	45576000.93	0.2680	0.2579	
Mercury	120079-04-11 17:29	G	45579115.12	45579115.23	45579115.33	0.2662	0.1779	
Mercury	120083-10-04 05:00	G	45580751.59	45580751.71	45580751.82	0.2670	0.0549	
Mercury	120096-10-05 23:14	G	45585502.36	45585502.47	45585502.58	0.2669	0.1032	
Venus	120105-04-05 23:43	G	45588605.32	45588605.49	45588605.66	0.2651	0.0203	
Mercury	120112-04-09 22:46	G	45591166.31	45591166.45	45591166.59	0.2665	0.0084	
Mercury	120116-10-02 13:24	G	45592803.01	45592803.06	45592803.12	0.2673	0.2368	
Mercury	120129-10-05 08:50	G	45597553.75	45597553.87	45597553.99	0.2679	0.0322	
Mercury	120142-10-08 05:29	G	45602304.64	45602304.73	45602304.82	0.2678	0.1636	
Mercury	120145-04-08 04:17	G	45603217.61	45603217.68	45603217.76	0.2657	0.2222	
Mercury	120158-04-11 05:14	G	45607968.58	45607968.72	45607968.86	0.2653	0.0558	
Mercury	120162-10-03 19:24	G	45609605.22	45609605.31	45609605.39	0.2684	0.1824	

Mercury	120175-10-06 15:19 G	45614356.02	45614356.14	45614356.26	0.2672	0.0319
Mercury	120188-10-08 09:48 G	45619106.83	45619106.91	45619106.99	0.2667	0.1895
Mercury	120191-04-09 08:07 G	45620019.74	45620019.84	45620019.93	0.2652	0.1998
Mercury	120204-04-12 09:34 G	45624770.76	45624770.90	45624771.03	0.2663	0.0881
Mercury	120208-10-05 00:12 G	45626407.41	45626407.51	45626407.60	0.2670	0.1465
Mercury	120221-10-07 18:55 G	45631158.17	45631158.29	45631158.40	0.2674	0.0451
Venus	120234-10-03 04:02 G	45635901.52	45635901.67	45635901.82	0.2680	0.0413
Mercury	120234-10-10 14:50 G	45635909.07	45635909.12	45635909.18	0.2679	0.2310
Mercury	120237-04-10 15:19 G	45636822.02	45636822.14	45636822.26	0.2663	0.1241
Mercury	120250-04-13 17:29 G	45641573.13	45641573.23	45641573.34	0.2657	0.1768
Mercury	120254-10-06 04:46 G	45643209.60	45643209.70	45643209.81	0.2682	0.1089
Mercury	120267-10-09 01:24 G	45647960.46	45647960.56	45647960.67	0.2678	0.1096
Mercury	120283-04-11 20:36 G	45653624.22	45653624.36	45653624.49	0.2651	0.0770
Mercury	120287-10-04 15:19 G	45655261.09	45655261.14	45655261.18	0.2683	0.2441
Mercury	120296-04-13 21:05 G	45658375.28	45658375.38	45658375.48	0.2658	0.1937
Mercury	120300-10-07 11:00 G	45660011.84	45660011.96	45660012.07	0.2671	0.0500
Mercury	120313-10-10 05:14 G	45664762.61	45664762.72	45664762.82	0.2670	0.1263
Mercury	120329-04-13 01:53 G	45670426.44	45670426.58	45670426.72	0.2663	0.0269
Mercury	120333-10-05 19:24 G	45672063.24	45672063.31	45672063.38	0.2671	0.2180
Mercury	120346-10-08 14:36 G	45676813.99	45676814.11	45676814.23	0.2677	0.0297
Venus	120348-04-08 09:48 G	45677361.75	45677361.91	45677362.07	0.2655	0.0207
Mercury	120359-10-11 10:46 G	45681564.86	45681564.95	45681565.04	0.2680	0.1675
Mercury	120362-04-11 07:24 G	45682477.74	45682477.81	45682477.88	0.2662	0.2250
Mercury	120375-04-14 09:34 G	45687228.77	45687228.90	45687229.04	0.2656	0.0640
Mercury	120379-10-07 00:26 G	45688865.43	45688865.52	45688865.60	0.2682	0.1872
Mercury	120392-10-08 21:05 G	45693616.26	45693616.38	45693616.49	0.2681	0.0387
Mercury	120405-10-11 16:31 G	45698367.13	45698367.19	45698367.26	0.2669	0.2169
Mercury	120408-04-11 13:24 G	45699279.95	45699280.06	45699280.16	0.2650	0.1722
Mercury	120421-04-14 13:24 G	45704030.93	45704031.06	45704031.20	0.2653	0.0921
Mercury	120425-10-07 06:55 G	45705667.68	45705667.79	45705667.89	0.2678	0.1228

Mercury	120438-10-10 01:38 G	45710418.46	45710418.57	45710418.69	0.2669	0.0723
Mercury	120451-10-12 20:22 G	45715169.29	45715169.35	45715169.40	0.2669	0.2322
Mercury	120454-04-12 17:14 G	45716082.11	45716082.22	45716082.34	0.2656	0.1473
Mercury	120467-04-15 19:53 G	45720833.22	45720833.33	45720833.44	0.2666	0.1576
Mercury	120471-10-08 10:46 G	45722469.83	45722469.95	45722470.06	0.2671	0.0989
Venus	120477-10-04 00:26 G	45724657.35	45724657.52	45724657.68	0.2673	0.0236
Mercury	120484-10-10 05:43 G	45727220.63	45727220.74	45727220.85	0.2676	0.0921
Mercury	120500-04-14 01:10 G	45732884.42	45732884.55	45732884.69	0.2662	0.0573
Mercury	120504-10-06 19:38 G	45734521.30	45734521.32	45734521.34	0.2677	0.2610
Mercury	120513-04-17 03:19 G	45737635.57	45737635.64	45737635.71	0.2658	0.2285
Mercury	120517-10-09 15:48 G	45739272.04	45739272.16	45739272.27	0.2683	0.0525
Mercury	120530-10-12 12:26 G	45744022.92	45744023.02	45744023.11	0.2678	0.1528
Mercury	120533-04-12 06:12 G	45744935.74	45744935.76	45744935.78	0.2655	0.2610
Mercury	120546-04-15 06:55 G	45749686.64	45749686.79	45749686.93	0.2651	0.0092
Mercury	120550-10-08 01:53 G	45751323.50	45751323.58	45751323.65	0.2685	0.2051
Mercury	120559-04-18 06:41 G	45754437.73	45754437.78	45754437.84	0.2655	0.2412
Mercury	120563-10-10 22:02 G	45756074.30	45756074.42	45756074.54	0.2675	0.0122
Mercury	120576-10-12 16:46 G	45760825.12	45760825.20	45760825.29	0.2668	0.1779
Mercury	120579-04-13 10:17 G	45761737.87	45761737.93	45761737.99	0.2649	0.2378
Venus	120591-04-10 08:50 G	45766117.70	45766117.87	45766118.04	0.2650	0.0039
Mercury	120592-04-15 10:46 G	45766488.81	45766488.95	45766489.09	0.2660	0.0335
Mercury	120596-10-08 07:10 G	45768125.70	45768125.80	45768125.90	0.2673	0.1576
Mercury	120609-10-12 01:53 G	45772876.46	45772876.58	45772876.69	0.2670	0.0317
Mercury	120622-10-14 21:05 G	45777627.30	45777627.38	45777627.45	0.2678	0.2033
Mercury	120625-04-14 16:17 G	45778540.08	45778540.18	45778540.27	0.2662	0.1845
Mercury	120638-04-17 18:55 G	45783291.16	45783291.29	45783291.41	0.2663	0.1198
Mercury	120642-10-10 11:00 G	45784927.85	45784927.96	45784928.06	0.2678	0.1366
Mercury	120655-10-13 07:10 G	45789678.69	45789678.80	45789678.92	0.2682	0.0741
Mercury	120671-04-15 23:43 G	45795342.36	45795342.49	45795342.62	0.2656	0.0962
Mercury	120684-04-17 23:58 G	45800093.39	45800093.50	45800093.62	0.2651	0.1577

Mercury	120688-10-10 17:14 G	45801730.11	45801730.22	45801730.34	0.2682	0.0686
Mercury	120701-10-14 13:10 G	45806480.95	45806481.05	45806481.16	0.2674	0.1226
Mercury	120717-04-17 03:19 G	45812144.50	45812144.64	45812144.78	0.2651	0.0712
Venus	120720-10-06 23:00 G	45813413.30	45813413.46	45813413.62	0.2680	0.0146
Mercury	120721-10-10 02:50 G	45813781.57	45813781.62	45813781.68	0.2681	0.2293
Mercury	120730-04-20 04:31 G	45816895.59	45816895.69	45816895.79	0.2661	0.1852
Mercury	120734-10-12 22:17 G	45818532.31	45818532.43	45818532.55	0.2671	0.0248
Mercury	120747-10-15 16:46 G	45823283.10	45823283.20	45823283.30	0.2672	0.1340
Mercury	120763-04-18 09:34 G	45828946.76	45828946.90	45828947.04	0.2662	0.0070
Mercury	120767-10-11 06:55 G	45830583.72	45830583.79	45830583.87	0.2672	0.2036
Mercury	120780-10-13 02:07 G	45835334.47	45835334.59	45835334.71	0.2677	0.0081
Mercury	120793-10-15 22:02 G	45840085.34	45840085.42	45840085.51	0.2680	0.1834
Mercury	120796-04-15 14:50 G	45840998.04	45840998.12	45840998.19	0.2661	0.2204
Mercury	120809-04-18 17:00 G	45845749.08	45845749.21	45845749.35	0.2658	0.0694
Mercury	120813-10-11 11:29 G	45847385.89	45847385.98	45847386.08	0.2681	0.1613
Mercury	120826-10-14 08:07 G	45852136.72	45852136.84	45852136.95	0.2684	0.0380
Venus	120834-04-12 07:38 G	45854873.66	45854873.82	45854873.99	0.2647	0.0247
Mercury	120839-10-17 04:31 G	45856887.65	45856887.69	45856887.72	0.2676	0.2505
Mercury	120842-04-16 21:34 G	45857800.29	45857800.40	45857800.52	0.2653	0.1402
Mercury	120855-04-19 22:02 G	45862551.29	45862551.42	45862551.55	0.2651	0.0978
Mercury	120859-10-12 17:58 G	45864188.14	45864188.25	45864188.36	0.2685	0.0977
Mercury	120872-10-14 13:53 G	45868938.97	45868939.08	45868939.20	0.2676	0.0906
Mercury	120888-04-17 01:53 G	45874602.46	45874602.58	45874602.71	0.2648	0.1095
Mercury	120892-10-10 03:19 G	45876239.61	45876239.64	45876239.67	0.2684	0.2577
Mercury	120901-04-21 02:22 G	45879353.47	45879353.60	45879353.72	0.2657	0.1289
Mercury	120905-10-13 23:14 G	45880990.36	45880990.47	45880990.59	0.2676	0.0596
Mercury	120918-10-16 18:12 G	45885741.15	45885741.26	45885741.36	0.2669	0.1233
Mercury	120934-04-19 06:55 G	45891404.66	45891404.79	45891404.92	0.2657	0.0811
Mercury	120938-10-12 08:22 G	45893041.78	45893041.85	45893041.93	0.2674	0.2081
Mercury	120947-04-22 09:05 G	45896155.80	45896155.88	45896155.96	0.2665	0.2135

Mercury	120951-10-15 03:05 G	45897792.52	45897792.63	45897792.75	0.2672	0.0445
Venus	120963-10-09 09:19 G	45902169.73	45902169.89	45902170.06	0.2676	0.0294
Mercury	120964-10-16 22:31 G	45902543.35	45902543.44	45902543.54	0.2676	0.1576
Mercury	120980-04-19 14:22 G	45908206.96	45908207.10	45908207.24	0.2662	0.0065
Mercury	120984-10-12 12:12 G	45909843.93	45909844.01	45909844.09	0.2677	0.1928
Mercury	120997-10-15 08:07 G	45914594.72	45914594.84	45914594.96	0.2681	0.0049

122ND MILLENNIUM CE

This is a list of transits visible from Moon in the 122nd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	121010-10-19 04:46 G		45919345.63	45919345.70	45919345.77	0.2682	0.2109	
Mercury	121013-04-18 19:38 G		45920258.23	45920258.32	45920258.41	0.2658	0.1966	
Mercury	121026-04-21 20:50 G		45925009.23	45925009.37	45925009.50	0.2654	0.0686	
Mercury	121030-10-14 17:43 G		45926646.14	45926646.24	45926646.33	0.2686	0.1570	
Mercury	121043-10-17 14:22 G		45931396.99	45931397.10	45931397.22	0.2682	0.0690	
Mercury	121056-10-19 10:17 G		45936147.89	45936147.93	45936147.97	0.2674	0.2499	
Mercury	121059-04-20 01:24 G		45937060.44	45937060.56	45937060.67	0.2649	0.1562	
Venus	121069-04-16 08:36 G		45940709.80	45940709.86	45940709.93	0.2656	0.2395	
Mercury	121072-04-22 00:55 G		45941811.40	45941811.54	45941811.67	0.2650	0.1014	
Mercury	121076-10-14 23:58 G		45943448.39	45943448.50	45943448.61	0.2682	0.0944	
Venus	121077-04-14 04:02 G		45943629.52	45943629.67	45943629.82	0.2656	0.0407	
Mercury	121089-10-17 19:38 G		45948199.21	45948199.32	45948199.43	0.2673	0.1093	
Mercury	121105-04-21 05:00 G		45953862.59	45953862.71	45953862.84	0.2651	0.1299	

Mercury	121109-10-14 09:19 G	45955499.84	45955499.89	45955499.93	0.2682	0.2487
Mercury	121118-04-24 06:12 G	45958613.64	45958613.76	45958613.88	0.2659	0.1409
Mercury	121122-10-17 04:31 G	45960250.58	45960250.69	45960250.81	0.2672	0.0517
Mercury	121135-10-19 23:29 G	45965001.37	45965001.48	45965001.59	0.2673	0.1203
Mercury	121151-04-22 11:14 G	45970664.83	45970664.97	45970665.10	0.2660	0.0594
Mercury	121155-10-15 13:24 G	45972302.00	45972302.06	45972302.12	0.2674	0.2258
Mercury	121164-04-24 13:53 G	45975416.01	45975416.08	45975416.16	0.2662	0.2179
Mercury	121168-10-17 08:36 G	45977052.74	45977052.86	45977052.98	0.2676	0.0252
Mercury	121181-10-20 04:31 G	45981803.60	45981803.69	45981803.79	0.2682	0.1594
Mercury	121197-04-22 18:55 G	45987467.15	45987467.29	45987467.42	0.2658	0.0234
Mercury	121201-10-15 17:43 G	45989104.16	45989104.24	45989104.33	0.2680	0.1892
Venus	121206-10-11 12:41 G	45990925.88	45990926.03	45990926.18	0.2690	0.0288
Venus	121214-10-09 07:24 G	45993845.75	45993845.81	45993845.87	0.2686	0.2469
Mercury	121214-10-18 14:21 G	45993854.98	45993855.10	45993855.22	0.2685	0.0209
Mercury	121227-10-21 11:00 G	45998605.90	45998605.96	45998606.02	0.2679	0.2265
Mercury	121230-04-20 23:43 G	45999518.40	45999518.49	45999518.59	0.2654	0.1869
Mercury	121243-04-24 00:12 G	46004269.37	46004269.51	46004269.65	0.2649	0.0564
Mercury	121247-10-16 23:57 G	46005906.40	46005906.50	46005906.61	0.2686	0.1232
Mercury	121260-10-18 20:36 G	46010657.24	46010657.36	46010657.47	0.2680	0.0704
Mercury	121276-04-21 04:17 G	46016320.56	46016320.68	46016320.79	0.2647	0.1491
Mercury	121289-04-24 04:17 G	46021071.54	46021071.68	46021071.81	0.2654	0.0789
Mercury	121293-10-17 05:43 G	46022708.63	46022708.74	46022708.86	0.2678	0.0737
Mercury	121306-10-21 00:41 G	46027459.42	46027459.53	46027459.64	0.2670	0.1005
Venus	121320-04-15 19:53 G	46032385.18	46032385.33	46032385.47	0.2647	0.1134
Mercury	121322-04-23 09:05 G	46033122.75	46033122.88	46033123.00	0.2654	0.1214
Mercury	121326-10-16 14:36 G	46034760.05	46034760.11	46034760.17	0.2676	0.2344
Mercury	121335-04-26 10:45 G	46037873.84	46037873.95	46037874.07	0.2663	0.1552
Mercury	121339-10-19 09:48 G	46039510.79	46039510.91	46039511.02	0.2674	0.0604
Mercury	121352-10-21 05:00 G	46044261.61	46044261.71	46044261.81	0.2676	0.1372
Mercury	121368-04-23 16:17 G	46049925.05	46049925.18	46049925.32	0.2660	0.0527

Mercury	121372-10-16 18:26 G	46051562.20	46051562.27	46051562.35	0.2677	0.2113
Mercury	121381-04-26 17:57 G	46054676.20	46054676.25	46054676.31	0.2658	0.2410
Mercury	121385-10-19 14:21 G	46056312.98	46056313.10	46056313.22	0.2682	0.0282
Mercury	121398-10-22 11:00 G	46061063.88	46061063.96	46061064.04	0.2683	0.1942
Mercury	121401-04-22 21:48 G	46061976.35	46061976.41	46061976.47	0.2656	0.2353
Mercury	121414-04-25 23:00 G	46066727.32	46066727.46	46066727.59	0.2653	0.0180
Mercury	121418-10-18 23:57 G	46068364.41	46068364.50	46068364.59	0.2687	0.1754
Mercury	121431-10-21 20:50 G	46073115.25	46073115.37	46073115.48	0.2684	0.0425
Mercury	121444-10-23 17:00 G	46077866.15	46077866.21	46077866.26	0.2676	0.2358
Mercury	121447-04-24 03:33 G	46078778.56	46078778.65	46078778.75	0.2647	0.1936
Venus	121449-10-13 07:09 G	46079681.65	46079681.80	46079681.96	0.2688	0.0068
Mercury	121460-04-26 02:50 G	46083529.48	46083529.62	46083529.75	0.2649	0.0489
Mercury	121464-10-19 06:12 G	46085166.65	46085166.76	46085166.87	0.2684	0.1193
Mercury	121477-10-22 02:07 G	46089917.47	46089917.59	46089917.70	0.2674	0.0922
Mercury	121490-10-24 20:50 G	46094668.33	46094668.37	46094668.40	0.2670	0.2526
Mercury	121493-04-24 07:24 G	46095580.71	46095580.81	46095580.92	0.2649	0.1733
Mercury	121497-10-17 15:19 G	46097218.13	46097218.14	46097218.15	0.2683	0.2661
Mercury	121506-04-28 08:07 G	46100331.71	46100331.84	46100331.96	0.2658	0.0987
Mercury	121510-10-21 11:00 G	46101968.84	46101968.96	46101969.07	0.2674	0.0792
Mercury	121523-10-24 05:57 G	46106719.64	46106719.75	46106719.86	0.2673	0.1068
Mercury	121539-04-26 13:38 G	46112382.94	46112383.07	46112383.19	0.2659	0.1092
Mercury	121543-10-19 19:38 G	46114020.27	46114020.32	46114020.36	0.2676	0.2461
Mercury	121552-04-28 15:48 G	46117134.05	46117134.16	46117134.26	0.2660	0.1739
Mercury	121556-10-21 14:50 G	46118771.01	46118771.12	46118771.24	0.2677	0.0470
Venus	121563-04-19 04:02 G	46121141.51	46121141.67	46121141.83	0.2641	0.0990
Mercury	121569-10-24 11:00 G	46123521.86	46123521.96	46123522.06	0.2684	0.1406
Mercury	121585-04-26 20:50 G	46129185.23	46129185.37	46129185.51	0.2657	0.0229
Mercury	121589-10-19 23:57 G	46130822.43	46130822.50	46130822.56	0.2682	0.2203
Mercury	121598-04-29 21:48 G	46133936.34	46133936.41	46133936.49	0.2652	0.2226
Mercury	121602-10-22 20:36 G	46135573.25	46135573.36	46135573.48	0.2686	0.0105

Mercury	121615-10-25 17:29 G	46140324.15	46140324.23	46140324.30	0.2682	0.2028
Mercury	121618-04-25 02:21 G	46141236.54	46141236.60	46141236.66	0.2652	0.2336
Mercury	121631-04-28 02:07 G	46145987.45	46145987.59	46145987.73	0.2647	0.0175
Mercury	121635-10-21 06:12 G	46147624.66	46147624.76	46147624.86	0.2688	0.1511
Mercury	121644-04-30 01:38 G	46150738.53	46150738.57	46150738.61	0.2652	0.2517
Mercury	121648-10-23 02:50 G	46152375.50	46152375.62	46152375.74	0.2681	0.0524
Mercury	121661-10-25 22:17 G	46157126.38	46157126.43	46157126.47	0.2671	0.2451
Mercury	121664-04-25 06:26 G	46158038.68	46158038.77	46158038.87	0.2645	0.1951
Mercury	121677-04-28 06:26 G	46162789.63	46162789.77	46162789.90	0.2651	0.0353
Mercury	121681-10-21 11:57 G	46164426.89	46164427.00	46164427.11	0.2679	0.0918
Venus	121692-10-14 13:38 G	46168437.91	46168438.07	46168438.24	0.2681	0.0112
Mercury	121694-10-24 07:09 G	46169177.68	46169177.80	46169177.91	0.2673	0.0764
Mercury	121710-04-27 11:14 G	46174840.86	46174840.97	46174841.08	0.2654	0.1554
Mercury	121723-04-30 13:24 G	46179591.93	46179592.06	46179592.18	0.2661	0.1059
Mercury	121727-10-23 15:33 G	46181229.04	46181229.15	46181229.27	0.2676	0.0788
Mercury	121740-10-25 11:29 G	46185979.87	46185979.98	46185980.09	0.2681	0.1095
Mercury	121756-04-27 19:09 G	46191643.17	46191643.30	46191643.43	0.2656	0.0765
Mercury	121760-10-21 00:26 G	46193280.47	46193280.52	46193280.57	0.2681	0.2422
Mercury	121769-04-30 20:07 G	46196394.23	46196394.34	46196394.44	0.2652	0.1804
Mercury	121773-10-23 21:05 G	46198031.26	46198031.38	46198031.50	0.2687	0.0413
Mercury	121786-10-26 18:12 G	46202782.17	46202782.26	46202782.34	0.2682	0.1809
Mercury	121802-04-30 00:26 G	46208445.38	46208445.52	46208445.66	0.2647	0.0405
Venus	121806-04-21 06:12 G	46209897.60	46209897.76	46209897.92	0.2643	0.0613
Mercury	121806-10-23 06:41 G	46210082.69	46210082.78	46210082.87	0.2689	0.1774
Mercury	121815-05-02 23:29 G	46213196.40	46213196.48	46213196.57	0.2651	0.2062
Mercury	121819-10-26 03:19 G	46214833.52	46214833.64	46214833.76	0.2680	0.0199
Mercury	121832-10-27 22:45 G	46219584.38	46219584.45	46219584.52	0.2672	0.2181
Mercury	121835-04-28 04:45 G	46220496.64	46220496.70	46220496.76	0.2644	0.2378
Mercury	121848-04-30 04:31 G	46225247.55	46225247.69	46225247.83	0.2654	0.0172
Mercury	121852-10-23 12:12 G	46226884.91	46226885.01	46226885.12	0.2679	0.1318

Mercury	121865-10-26 07:24 G	46231635.69	46231635.81	46231635.93	0.2673	0.0443
Mercury	121878-10-29 02:50 G	46236386.57	46236386.62	46236386.67	0.2679	0.2389
Mercury	121881-04-28 10:02 G	46237298.84	46237298.92	46237299.01	0.2656	0.1995
Mercury	121894-05-01 11:57 G	46242049.86	46242050.00	46242050.13	0.2660	0.0669
Mercury	121898-10-24 16:02 G	46243687.06	46243687.17	46243687.27	0.2679	0.1207
Mercury	121911-10-28 12:12 G	46248437.90	46248438.01	46248438.13	0.2684	0.0894
Mercury	121927-04-30 17:43 G	46254101.12	46254101.24	46254101.36	0.2655	0.1285
Venus	121935-10-18 17:00 G	46257194.05	46257194.21	46257194.38	0.2681	0.0154
Mercury	121940-05-02 17:57 G	46258852.13	46258852.25	46258852.37	0.2648	0.1304
Mercury	121944-10-25 21:48 G	46260489.30	46260489.41	46260489.53	0.2688	0.0715
Mercury	121957-10-28 18:55 G	46265240.19	46265240.29	46265240.38	0.2682	0.1575
Mercury	121973-04-30 22:17 G	46270903.30	46270903.43	46270903.56	0.2645	0.0968
Mercury	121977-10-24 07:09 G	46272540.73	46272540.80	46272540.88	0.2690	0.2126
Mercury	121986-05-03 21:48 G	46275654.30	46275654.41	46275654.52	0.2651	0.1590
Mercury	121990-10-27 04:02 G	46277291.55	46277291.67	46277291.79	0.2679	0.0115

123RD MILLENNIUM CE

This is a list of transits visible from Moon in the 123rd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	122003-10-29 23:00 G	46282042.38	46282042.46	46282042.55	0.2673	0.1803		
Mercury	122019-05-02 02:50 G	46287705.49	46287705.62	46287705.75	0.2654	0.0596		
Mercury	122023-10-25 12:26 G	46289342.93	46289343.02	46289343.11	0.2677	0.1743		
Mercury	122032-05-04 04:45 G	46292456.63	46292456.70	46292456.77	0.2661	0.2270		

Mercury	122036-10-27 07:53 G	46294093.71	46294093.83	46294093.95	0.2675	0.0182
Venus	122041-04-24 13:24 G	46295734.01	46295734.06	46295734.10	0.2652	0.2522
Venus	122049-04-22 06:26 G	46298653.61	46298653.77	46298653.93	0.2644	0.0427
Mercury	122049-10-30 03:19 G	46298844.57	46298844.64	46298844.72	0.2681	0.2004
Mercury	122052-04-29 08:50 G	46299756.83	46299756.87	46299756.91	0.2656	0.2504
Mercury	122065-05-02 10:31 G	46304507.80	46304507.94	46304508.07	0.2657	0.0299
Mercury	122069-10-25 16:31 G	46306145.09	46306145.19	46306145.28	0.2680	0.1585
Mercury	122082-10-28 12:55 G	46310895.92	46310896.04	46310896.16	0.2687	0.0634
Mercury	122095-10-31 09:48 G	46315646.89	46315646.91	46315646.94	0.2683	0.2607
Mercury	122098-04-30 16:17 G	46316559.08	46316559.18	46316559.28	0.2652	0.1770
Mercury	122111-05-04 16:17 G	46321310.04	46321310.18	46321310.31	0.2647	0.0865
Mercury	122115-10-27 22:31 G	46322947.33	46322947.44	46322947.55	0.2689	0.0981
Mercury	122128-10-29 19:24 G	46327698.20	46327698.31	46327698.41	0.2683	0.1215
Mercury	122144-05-01 20:50 G	46333361.25	46333361.37	46333361.48	0.2644	0.1395
Mercury	122148-10-25 07:53 G	46334998.79	46334998.83	46334998.87	0.2689	0.2505
Mercury	122157-05-04 20:07 G	46338112.21	46338112.34	46338112.46	0.2652	0.1049
Mercury	122161-10-28 04:31 G	46339749.57	46339749.69	46339749.81	0.2680	0.0334
Mercury	122174-10-30 23:29 G	46344500.38	46344500.48	46344500.58	0.2673	0.1403
Venus	122178-10-19 22:31 G	46345950.28	46345950.44	46345950.61	0.2683	0.0225
Mercury	122190-05-03 01:38 G	46350163.44	46350163.57	46350163.69	0.2655	0.0938
Mercury	122194-10-26 12:41 G	46351800.96	46351801.03	46351801.10	0.2677	0.2158
Mercury	122203-05-07 03:33 G	46354914.54	46354914.65	46354914.75	0.2660	0.1771
Mercury	122207-10-30 07:53 G	46356551.71	46356551.83	46356551.95	0.2680	0.0177
Mercury	122220-11-01 04:31 G	46361302.60	46361302.69	46361302.77	0.2685	0.1756
Mercury	122236-05-04 09:19 G	46366965.76	46366965.89	46366966.03	0.2652	0.0079
Mercury	122240-10-27 17:00 G	46368603.12	46368603.21	46368603.29	0.2688	0.1897
Mercury	122249-05-07 08:50 G	46371716.79	46371716.87	46371716.94	0.2647	0.2192
Mercury	122253-10-30 14:07 G	46373353.98	46373354.09	46373354.21	0.2687	0.0452
Mercury	122266-11-02 10:45 G	46378104.90	46378104.95	46378105.01	0.2678	0.2347
Mercury	122269-05-02 14:21 G	46379017.03	46379017.10	46379017.17	0.2643	0.2276

Mercury	122282-05-05 12:55 G	46383767.90	46383768.04	46383768.18	0.2648	0.0135
Venus	122284-04-26 15:19 G	46384490.12	46384490.14	46384490.16	0.2646	0.2617
Mercury	122286-10-28 23:43 G	46385405.38	46385405.49	46385405.60	0.2685	0.1186
Venus	122292-04-24 02:50 G	46387409.47	46387409.62	46387409.78	0.2637	0.1085
Mercury	122295-05-08 13:24 G	46388519.02	46388519.06	46388519.10	0.2657	0.2525
Mercury	122299-10-31 19:09 G	46390156.19	46390156.30	46390156.42	0.2674	0.0829
Mercury	122312-11-03 14:21 G	46394907.06	46394907.10	46394907.14	0.2677	0.2492
Mercury	122315-05-04 18:12 G	46395819.18	46395819.26	46395819.35	0.2652	0.2025
Mercury	122328-05-06 19:38 G	46400570.19	46400570.32	46400570.45	0.2658	0.0787
Mercury	122332-10-30 03:19 G	46402207.53	46402207.64	46402207.75	0.2678	0.0987
Mercury	122345-11-01 23:29 G	46406958.37	46406958.48	46406958.59	0.2685	0.1071
Mercury	122361-05-05 02:07 G	46412621.46	46412621.59	46412621.71	0.2653	0.1167
Mercury	122365-10-28 11:57 G	46414258.98	46414259.00	46414259.01	0.2688	0.2657
Mercury	122374-05-08 01:53 G	46417372.46	46417372.58	46417372.70	0.2646	0.1363
Mercury	122378-10-31 09:05 G	46419009.76	46419009.88	46419010.00	0.2689	0.0411
Mercury	122391-11-03 06:12 G	46423760.67	46423760.76	46423760.85	0.2682	0.1692
Mercury	122407-05-06 05:57 G	46429423.62	46429423.75	46429423.88	0.2645	0.0878
Mercury	122411-10-29 18:41 G	46431061.20	46431061.28	46431061.36	0.2689	0.1995
Mercury	122420-05-08 05:43 G	46434174.63	46434174.74	46434174.85	0.2654	0.1551
Venus	122421-10-21 18:12 G	46434706.11	46434706.26	46434706.41	0.2693	0.0312
Mercury	122424-10-31 14:50 G	46435812.00	46435812.12	46435812.24	0.2677	0.0163
Mercury	122437-11-03 09:48 G	46440562.83	46440562.91	46440563.00	0.2676	0.1829
Mercury	122453-05-06 11:57 G	46446225.86	46446226.00	46446226.13	0.2657	0.0290
Mercury	122457-10-29 22:45 G	46447863.36	46447863.45	46447863.54	0.2678	0.1741
Mercury	122466-05-09 13:53 G	46450977.02	46450977.08	46450977.14	0.2656	0.2390
Mercury	122470-11-01 18:41 G	46452614.16	46452614.28	46452614.40	0.2684	0.0354
Mercury	122483-11-04 15:33 G	46457365.10	46457365.15	46457365.21	0.2687	0.2322
Mercury	122486-05-04 18:41 G	46458277.21	46458277.28	46458277.35	0.2654	0.2203
Mercury	122499-05-07 18:55 G	46463028.16	46463028.29	46463028.43	0.2647	0.0487
Mercury	122503-11-01 04:02 G	46464665.56	46464665.67	46464665.77	0.2690	0.1301

Mercury	122512-05-10 17:57	G	46467779.24	46467779.25	46467779.26	0.2647	0.2638
Mercury	122516-11-03 01:24	G	46469416.45	46469416.56	46469416.67	0.2686	0.1024
Venus	122527-04-29 07:38	G	46473245.72	46473245.82	46473245.92	0.2636	0.2129
Mercury	122532-05-05 23:29	G	46475079.38	46475079.48	46475079.58	0.2642	0.1815
Venus	122535-04-26 17:29	G	46476165.17	46476165.23	46476165.29	0.2640	0.2427
Mercury	122545-05-08 22:31	G	46479830.31	46479830.44	46479830.58	0.2650	0.0659
Mercury	122549-11-01 10:17	G	46481467.82	46481467.93	46481468.05	0.2681	0.0650
Mercury	122562-11-04 05:29	G	46486218.63	46486218.73	46486218.84	0.2675	0.1249
Mercury	122578-05-07 04:31	G	46491881.57	46491881.69	46491881.80	0.2653	0.1397
Mercury	122582-10-30 18:12	G	46493519.21	46493519.26	46493519.32	0.2679	0.2393
Mercury	122591-05-10 06:12	G	46496632.64	46496632.76	46496632.87	0.2657	0.1437
Mercury	122595-11-02 13:53	G	46498269.96	46498270.08	46498270.20	0.2683	0.0475
Mercury	122608-11-05 10:31	G	46503020.85	46503020.94	46503021.04	0.2687	0.1593
Mercury	122624-05-08 12:12	G	46508683.87	46508684.01	46508684.14	0.2649	0.0554
Mercury	122628-10-31 22:45	G	46510321.38	46510321.45	46510321.52	0.2690	0.2136
Mercury	122637-05-11 11:14	G	46513434.87	46513434.97	46513435.07	0.2645	0.1796
Mercury	122641-11-03 20:21	G	46515072.23	46515072.35	46515072.47	0.2690	0.0223
Mercury	122654-11-06 17:00	G	46519823.14	46519823.21	46519823.28	0.2679	0.2175
Mercury	122657-05-06 17:14	G	46520735.20	46520735.22	46520735.23	0.2641	0.2610
Venus	122664-10-24 05:57	G	46523462.62	46523462.75	46523462.89	0.2697	0.1136
Mercury	122670-05-09 15:33	G	46525486.02	46525486.15	46525486.29	0.2646	0.0324
Venus	122672-10-21 23:57	G	46526382.48	46526382.50	46526382.51	0.2692	0.2668
Mercury	122674-11-02 05:29	G	46527123.63	46527123.73	46527123.84	0.2687	0.1462
Mercury	122683-05-12 15:33	G	46530237.07	46530237.15	46530237.24	0.2655	0.2071
Mercury	122687-11-05 01:24	G	46531874.44	46531874.56	46531874.68	0.2676	0.0625
Mercury	122700-11-07 20:36	G	46536625.30	46536625.36	46536625.42	0.2678	0.2304
Mercury	122703-05-08 21:19	G	46537537.33	46537537.39	46537537.44	0.2649	0.2404
Mercury	122716-05-10 22:02	G	46542288.29	46542288.42	46542288.56	0.2657	0.0368
Mercury	122720-11-03 09:19	G	46543925.78	46543925.89	46543926.00	0.2680	0.1261
Mercury	122733-11-06 05:29	G	46548676.62	46548676.73	46548676.84	0.2685	0.0867

Mercury	122749-05-09 05:00	G	46554339.60	46554339.71	46554339.82	0.2652	0.1590
Mercury	122762-05-12 04:31	G	46559090.56	46559090.69	46559090.82	0.2645	0.0985
Mercury	122766-11-04 14:50	G	46560728.01	46560728.12	46560728.24	0.2691	0.0720
Venus	122770-05-01 03:48	G	46562001.56	46562001.66	46562001.76	0.2645	0.1981
Venus	122778-04-28 23:29	G	46564921.36	46564921.48	46564921.61	0.2646	0.1488
Mercury	122779-11-07 12:12	G	46565478.92	46565479.01	46565479.11	0.2685	0.1540
Mercury	122795-05-10 09:19	G	46571141.77	46571141.89	46571142.01	0.2642	0.1253
Mercury	122799-11-03 00:12	G	46572779.45	46572779.51	46572779.58	0.2692	0.2255
Mercury	122808-05-12 08:21	G	46575892.72	46575892.85	46575892.97	0.2650	0.1155
Mercury	122812-11-04 21:05	G	46577530.25	46577530.38	46577530.50	0.2680	0.0117
Mercury	122825-11-07 16:17	G	46582281.09	46582281.18	46582281.27	0.2676	0.1699
Mercury	122841-05-10 14:21	G	46587943.97	46587944.10	46587944.23	0.2654	0.0765
Mercury	122845-11-03 04:45	G	46589581.62	46589581.70	46589581.79	0.2679	0.1941
Mercury	122854-05-13 16:02	G	46592695.08	46592695.17	46592695.26	0.2656	0.1957
Mercury	122858-11-06 00:41	G	46594332.41	46594332.53	46594332.65	0.2682	0.0121
Mercury	122871-11-08 21:19	G	46599083.32	46599083.39	46599083.47	0.2688	0.2078
Mercury	122874-05-08 21:33	G	46599995.37	46599995.40	46599995.42	0.2653	0.2583
Mercury	122887-05-11 21:48	G	46604746.28	46604746.41	46604746.55	0.2647	0.0064
Mercury	122891-11-04 09:33	G	46606383.80	46606383.90	46606383.99	0.2690	0.1634
Mercury	122900-05-14 21:05	G	46609497.31	46609497.38	46609497.44	0.2645	0.2280
Mercury	122904-11-07 07:09	G	46611134.68	46611134.80	46611134.91	0.2690	0.0776
Venus	122907-10-27 07:24	G	46612218.65	46612218.81	46612218.96	0.2688	0.0754
Mercury	122917-11-10 03:48	G	46615885.64	46615885.66	46615885.67	0.2678	0.2650
Mercury	122920-05-10 03:05	G	46616797.55	46616797.63	46616797.71	0.2641	0.2103
Mercury	122933-05-13 01:24	G	46621548.43	46621548.56	46621548.70	0.2645	0.0281
Mercury	122937-11-05 16:17	G	46623186.07	46623186.18	46623186.30	0.2685	0.0915
Mercury	122946-05-16 01:38	G	46626299.55	46626299.57	46626299.59	0.2657	0.2616
Mercury	122950-11-08 11:57	G	46627936.89	46627937.00	46627937.11	0.2677	0.1112
Mercury	122966-05-11 06:55	G	46633599.70	46633599.79	46633599.89	0.2649	0.1854
Mercury	122970-11-04 00:26	G	46635237.48	46635237.52	46635237.55	0.2682	0.2571

Mercury 122979-05-14 08:07 G 46638350.72 46638350.84 46638350.97 0.2656 0.0950

Mercury 122983-11-06 19:53 G 46639988.21 46639988.33 46639988.45 0.2681 0.0695

Mercury 122996-11-08 16:17 G 46644739.07 46644739.18 46644739.28 0.2686 0.1340

124TH MILLENNIUM CE

This is a list of transits visible from Moon in the 124th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	123012-05-12 14:50	G	46650402.00	46650402.12	46650402.25	0.2650	0.0987	
Venus	123013-05-03 12:41	G	46650757.97	46650758.03	46650758.09	0.2644	0.2428	
Mercury	123016-11-05 04:17	G	46652039.63	46652039.68	46652039.73	0.2688	0.2424	
Venus	123021-05-01 02:50	G	46653677.46	46653677.62	46653677.78	0.2634	0.0895	
Mercury	123025-05-15 14:21	G	46655152.99	46655153.10	46655153.21	0.2645	0.1467	
Mercury	123029-11-08 01:38	G	46656790.45	46656790.57	46656790.69	0.2692	0.0140	
Mercury	123042-11-10 23:00	G	46661541.38	46661541.46	46661541.54	0.2683	0.2001	
Mercury	123058-05-13 19:09	G	46667204.16	46667204.30	46667204.43	0.2642	0.0633	
Mercury	123062-11-06 11:14	G	46668841.87	46668841.97	46668842.06	0.2691	0.1737	
Mercury	123071-05-16 18:12	G	46671955.15	46671955.26	46671955.36	0.2651	0.1638	
Mercury	123075-11-09 07:38	G	46673592.70	46673592.82	46673592.94	0.2680	0.0453	
Mercury	123088-11-11 03:05	G	46678343.56	46678343.63	46678343.70	0.2676	0.2164	
Mercury	123104-05-15 00:26	G	46684006.39	46684006.52	46684006.66	0.2655	0.0139	
Mercury	123108-11-07 15:33	G	46685644.05	46685644.15	46685644.25	0.2680	0.1424	
Mercury	123117-05-18 01:53	G	46688757.53	46688757.58	46688757.63	0.2655	0.2444	
Mercury	123121-11-10 11:14	G	46690394.85	46690394.97	46690395.09	0.2683	0.0645	

Mercury	123134-11-13 08:21 G	46695145.82	46695145.85	46695145.88	0.2689	0.2606
Mercury	123137-05-13 07:38 G	46696057.73	46696057.82	46696057.90	0.2652	0.2029
Mercury	123150-05-16 07:38 G	46700808.69	46700808.82	46700808.96	0.2648	0.0631
Venus	123150-10-29 03:05 G	46700974.47	46700974.63	46700974.79	0.2692	0.0345
Mercury	123154-11-08 20:07 G	46702446.23	46702446.34	46702446.45	0.2691	0.1078
Mercury	123167-11-11 17:57 G	46707197.14	46707197.25	46707197.35	0.2690	0.1264
Mercury	123183-05-14 13:09 G	46712859.94	46712860.05	46712860.17	0.2642	0.1465
Mercury	123187-11-07 05:14 G	46714497.70	46714497.72	46714497.75	0.2696	0.2615
Mercury	123196-05-16 11:29 G	46717610.85	46717610.98	46717611.11	0.2644	0.0801
Mercury	123200-11-09 02:50 G	46719248.50	46719248.62	46719248.74	0.2687	0.0330
Mercury	123213-11-11 23:00 G	46723999.37	46723999.46	46723999.56	0.2678	0.1605
Mercury	123229-05-14 17:00 G	46729662.09	46729662.21	46729662.33	0.2648	0.1221
Mercury	123233-11-07 11:14 G	46731299.90	46731299.97	46731300.05	0.2685	0.2088
Mercury	123242-05-17 17:43 G	46734413.12	46734413.24	46734413.36	0.2655	0.1339
Mercury	123246-11-10 06:55 G	46736050.67	46736050.79	46736050.92	0.2679	0.0054
Venus	123256-05-04 12:12 G	46739513.90	46739514.01	46739514.11	0.2635	0.2048
Mercury	123259-11-13 02:50 G	46740801.54	46740801.62	46740801.71	0.2685	0.1777
Venus	123264-05-01 19:09 G	46742433.19	46742433.30	46742433.41	0.2630	0.1978
Mercury	123275-05-16 00:26 G	46746464.38	46746464.52	46746464.65	0.2652	0.0402
Mercury	123279-11-08 14:50 G	46748102.04	46748102.12	46748102.20	0.2685	0.1932
Mercury	123288-05-18 00:41 G	46751215.44	46751215.53	46751215.62	0.2647	0.1979
Mercury	123292-11-10 11:57 G	46752852.89	46752853.00	46752853.12	0.2691	0.0392
Mercury	123305-11-14 09:33 G	46757603.85	46757603.90	46757603.95	0.2688	0.2422
Mercury	123308-05-14 06:55 G	46758515.73	46758515.79	46758515.85	0.2647	0.2344
Mercury	123321-05-17 05:43 G	46763266.60	46763266.74	46763266.87	0.2641	0.0089
Mercury	123325-11-09 21:19 G	46764904.28	46764904.39	46764904.49	0.2694	0.1259
Mercury	123334-05-20 04:17 G	46768017.60	46768017.68	46768017.75	0.2647	0.2144
Mercury	123338-11-12 18:41 G	46769655.16	46769655.28	46769655.39	0.2686	0.0975
Mercury	123354-05-15 10:45 G	46775317.87	46775317.95	46775318.03	0.2640	0.2090
Mercury	123367-05-18 10:02 G	46780068.78	46780068.92	46780069.05	0.2650	0.0318

Mercury	123371-11-11 03:05 G	46781706.51	46781706.63	46781706.74	0.2682	0.0679
Mercury	123384-11-12 22:17 G	46786457.32	46786457.43	46786457.54	0.2680	0.1121
Venus	123393-10-30 05:14 G	46789730.57	46789730.72	46789730.87	0.2700	0.0494
Mercury	123400-05-16 16:31 G	46792120.08	46792120.19	46792120.30	0.2651	0.1517
Mercury	123404-11-09 10:31 G	46793757.91	46793757.94	46793757.97	0.2682	0.2593
Mercury	123413-05-19 17:29 G	46796871.11	46796871.23	46796871.36	0.2653	0.1046
Mercury	123417-11-12 06:41 G	46798508.66	46798508.78	46798508.90	0.2687	0.0470
Mercury	123430-11-15 03:48 G	46803259.56	46803259.66	46803259.76	0.2691	0.1536
Mercury	123446-05-17 23:43 G	46808922.36	46808922.49	46808922.62	0.2645	0.0726
Mercury	123450-11-10 15:19 G	46810560.07	46810560.14	46810560.20	0.2693	0.2246
Mercury	123459-05-20 22:17 G	46813673.31	46813673.43	46813673.55	0.2642	0.1359
Mercury	123463-11-13 13:09 G	46815310.93	46815311.05	46815311.17	0.2693	0.0169
Mercury	123476-11-15 10:17 G	46820061.86	46820061.93	46820062.00	0.2682	0.2148
Mercury	123492-05-18 03:19 G	46825724.51	46825724.64	46825724.77	0.2642	0.0541
Mercury	123496-11-10 22:02 G	46827362.32	46827362.42	46827362.53	0.2690	0.1483
Venus	123499-05-07 07:24 G	46828269.66	46828269.81	46828269.96	0.2630	0.1356
Mercury	123505-05-22 02:50 G	46830475.51	46830475.62	46830475.72	0.2652	0.1683
Venus	123507-05-05 15:19 G	46831189.10	46831189.14	46831189.18	0.2631	0.2560
Mercury	123509-11-14 18:12 G	46832113.14	46832113.26	46832113.39	0.2680	0.0559
Mercury	123522-11-17 13:53 G	46836864.03	46836864.08	46836864.13	0.2680	0.2367
Mercury	123525-05-17 09:19 G	46837775.85	46837775.89	46837775.92	0.2644	0.2540
Mercury	123538-05-20 09:33 G	46842526.77	46842526.90	46842527.03	0.2654	0.0017
Mercury	123542-11-13 02:07 G	46844164.48	46844164.59	46844164.70	0.2682	0.1206
Mercury	123551-05-23 10:31 G	46847277.91	46847277.94	46847277.97	0.2651	0.2557
Mercury	123555-11-15 22:17 G	46848915.31	46848915.43	46848915.55	0.2686	0.0716
Mercury	123571-05-18 16:45 G	46854578.10	46854578.20	46854578.30	0.2650	0.1735
Mercury	123584-05-20 16:17 G	46859329.05	46859329.18	46859329.31	0.2644	0.0596
Mercury	123588-11-13 07:09 G	46860966.68	46860966.80	46860966.91	0.2693	0.0760
Mercury	123601-11-16 05:14 G	46865717.61	46865717.72	46865717.82	0.2690	0.1379
Mercury	123617-05-18 21:48 G	46871380.29	46871380.41	46871380.53	0.2639	0.1272

Mercury	123621-11-11 16:17 G	46873018.13	46873018.18	46873018.23	0.2697	0.2461
Mercury	123630-05-21 19:53 G	46876131.20	46876131.33	46876131.46	0.2644	0.0730
Mercury	123634-11-14 13:53 G	46877768.96	46877769.08	46877769.20	0.2687	0.0088
Venus	123636-11-01 11:57 G	46878486.86	46878487.00	46878487.15	0.2705	0.0043
Mercury	123647-11-17 09:48 G	46882519.82	46882519.91	46882520.01	0.2679	0.1740
Mercury	123663-05-20 01:53 G	46888182.46	46888182.58	46888182.70	0.2648	0.1002
Mercury	123667-11-12 21:48 G	46889820.32	46889820.41	46889820.50	0.2684	0.1894
Mercury	123676-05-22 02:50 G	46892933.51	46892933.62	46892933.73	0.2654	0.1442
Mercury	123680-11-14 17:43 G	46894571.11	46894571.24	46894571.36	0.2682	0.0102
Mercury	123693-11-17 14:07 G	46899322.01	46899322.09	46899322.17	0.2689	0.2032
Mercury	123709-05-21 09:33 G	46904984.77	46904984.90	46904985.03	0.2648	0.0231
Mercury	123713-11-14 01:38 G	46906622.47	46906622.57	46906622.67	0.2690	0.1648
Mercury	123722-05-24 08:50 G	46909735.79	46909735.87	46909735.96	0.2643	0.2053
Mercury	123726-11-16 23:29 G	46911373.36	46911373.48	46911373.60	0.2694	0.0567
Venus	123742-05-09 00:26 G	46917025.36	46917025.52	46917025.68	0.2634	0.0642
Mercury	123742-05-19 15:48 G	46917036.08	46917036.16	46917036.24	0.2641	0.2107
Mercury	123755-05-22 13:38 G	46921786.94	46921787.07	46921787.21	0.2639	0.0078
Mercury	123759-11-15 08:36 G	46923424.75	46923424.86	46923424.98	0.2692	0.0898
Mercury	123768-05-24 12:41 G	46926537.96	46926538.03	46926538.09	0.2650	0.2297
Mercury	123772-11-17 05:29 G	46928175.61	46928175.73	46928175.84	0.2683	0.1051
Mercury	123788-05-19 19:09 G	46933838.21	46933838.30	46933838.39	0.2643	0.1912
Mercury	123801-05-23 19:24 G	46938589.18	46938589.31	46938589.44	0.2652	0.0437
Mercury	123805-11-16 12:55 G	46940226.92	46940227.04	46940227.16	0.2682	0.0590
Mercury	123818-11-19 09:05 G	46944977.77	46944977.88	46944977.99	0.2686	0.1202
Mercury	123834-05-22 02:36 G	46950640.49	46950640.61	46950640.72	0.2649	0.1165
Mercury	123838-11-14 20:36 G	46952278.32	46952278.36	46952278.40	0.2687	0.2519
Mercury	123847-05-25 02:21 G	46955391.48	46955391.60	46955391.73	0.2645	0.1114
Mercury	123851-11-17 17:43 G	46957029.12	46957029.24	46957029.36	0.2694	0.0249
Mercury	123864-11-19 15:48 G	46961780.07	46961780.16	46961780.24	0.2691	0.1904
Venus	123879-11-04 20:50 G	46967243.23	46967243.37	46967243.51	0.2702	0.0881

Mercury	123880-05-22 07:53 G	46967442.70	46967442.83	46967442.96	0.2638	0.0722
Mercury	123884-11-15 02:50 G	46969080.54	46969080.62	46969080.71	0.2697	0.1862
Mercury	123893-05-25 05:57 G	46972193.63	46972193.75	46972193.86	0.2644	0.1280
Mercury	123897-11-18 00:26 G	46973831.40	46973831.52	46973831.65	0.2688	0.0389
Mercury	123910-11-21 20:36 G	46978582.30	46978582.36	46978582.42	0.2679	0.2313
Mercury	123926-05-24 11:57 G	46984244.87	46984245.00	46984245.13	0.2648	0.0498
Mercury	123930-11-17 08:36 G	46985882.75	46985882.86	46985882.96	0.2685	0.1289
Mercury	123939-05-27 12:41 G	46988995.94	46988996.03	46988996.11	0.2654	0.2025
Mercury	123943-11-20 04:17 G	46990633.56	46990633.68	46990633.80	0.2682	0.0513
Mercury	123956-11-22 00:55 G	46995384.52	46995384.54	46995384.56	0.2690	0.2639
Mercury	123959-05-22 19:09 G	46996296.23	46996296.30	46996296.38	0.2649	0.2197
Mercury	123972-05-24 19:38 G	47001047.19	47001047.32	47001047.45	0.2649	0.0221
Mercury	123976-11-17 12:12 G	47002684.90	47002685.01	47002685.12	0.2691	0.1078
Venus	123985-05-11 04:02 G	47005781.54	47005781.67	47005781.81	0.2640	0.1317
Mercury	123989-11-20 10:02 G	47007435.81	47007435.92	47007436.04	0.2694	0.1037
Venus	123993-05-09 00:12 G	47008701.43	47008701.51	47008701.60	0.2635	0.2186

125TH MILLENNIUM CE

This is a list of transits visible from Moon in the 125th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	124005-05-23 01:53 G		47013098.47	47013098.58	47013098.69	0.2641	0.1485	
Mercury	124018-05-25 23:43 G		47017849.36	47017849.49	47017849.63	0.2639	0.0466	
Mercury	124022-11-18 19:09 G		47019487.18	47019487.30	47019487.42	0.2694	0.0386	

Mercury	124035-11-21 16:17 G	47024238.08	47024238.18	47024238.28	0.2683	0.1596
Mercury	124051-05-24 05:29 G	47029900.61	47029900.73	47029900.84	0.2642	0.1330
Mercury	124055-11-17 03:33 G	47031538.57	47031538.65	47031538.72	0.2691	0.2120
Mercury	124064-05-26 05:14 G	47034651.59	47034651.72	47034651.84	0.2651	0.0922
Mercury	124068-11-18 23:43 G	47036289.37	47036289.49	47036289.62	0.2682	0.0125
Mercury	124081-11-21 19:53 G	47041040.24	47041040.33	47041040.42	0.2686	0.1784
Mercury	124097-05-24 12:26 G	47046702.89	47046703.02	47046703.14	0.2650	0.0703
Mercury	124101-11-18 07:09 G	47048340.71	47048340.80	47048340.88	0.2687	0.1913
Mercury	124110-05-28 12:26 G	47051453.92	47051454.02	47051454.12	0.2645	0.1704
Mercury	124114-11-21 04:17 G	47053091.56	47053091.68	47053091.81	0.2693	0.0205
Venus	124122-11-06 20:07 G	47055999.19	47055999.34	47055999.50	0.2694	0.0873
Mercury	124127-11-24 02:07 G	47057842.55	47057842.59	47057842.64	0.2693	0.2483
Mercury	124130-05-23 19:38 G	47058754.27	47058754.32	47058754.37	0.2644	0.2405
Mercury	124143-05-26 17:57 G	47063505.12	47063505.25	47063505.39	0.2638	0.0248
Mercury	124147-11-19 13:09 G	47065142.95	47065143.05	47065143.16	0.2697	0.1303
Mercury	124156-05-28 16:02 G	47068256.08	47068256.17	47068256.26	0.2643	0.1927
Mercury	124160-11-21 11:14 G	47069893.86	47069893.97	47069894.09	0.2690	0.0843
Mercury	124176-05-23 23:29 G	47075556.40	47075556.48	47075556.56	0.2637	0.2147
Mercury	124189-05-26 22:02 G	47080307.29	47080307.42	47080307.55	0.2645	0.0061
Mercury	124193-11-19 19:09 G	47081945.18	47081945.30	47081945.42	0.2685	0.0722
Mercury	124202-05-30 22:17 G	47085058.42	47085058.43	47085058.45	0.2654	0.2622
Mercury	124206-11-23 15:05 G	47086696.01	47086696.13	47086696.24	0.2683	0.1028
Mercury	124222-05-26 05:00 G	47092358.61	47092358.71	47092358.81	0.2648	0.1654
Venus	124228-05-13 10:17 G	47094537.84	47094537.93	47094538.02	0.2636	0.2137
Mercury	124235-05-29 05:29 G	47097109.61	47097109.73	47097109.86	0.2649	0.0722
Venus	124236-05-10 23:00 G	47097457.36	47097457.46	47097457.56	0.2626	0.2138
Mercury	124239-11-21 23:00 G	47098747.34	47098747.46	47098747.58	0.2690	0.0571
Mercury	124252-11-23 20:36 G	47103498.26	47103498.36	47103498.45	0.2694	0.1543
Mercury	124268-05-26 12:12 G	47109160.88	47109161.01	47109161.13	0.2640	0.0951
Mercury	124272-11-19 07:24 G	47110798.74	47110798.81	47110798.87	0.2697	0.2276

Mercury	124281-05-29 10:02 G	47113911.79	47113911.92	47113912.04	0.2639	0.1047
Mercury	124285-11-22 05:43 G	47115549.61	47115549.74	47115549.86	0.2696	0.0075
Mercury	124298-11-25 02:50 G	47120300.55	47120300.62	47120300.69	0.2684	0.2173
Mercury	124314-05-28 15:33 G	47125963.03	47125963.15	47125963.28	0.2640	0.0836
Mercury	124318-11-21 14:07 G	47127600.99	47127601.09	47127601.20	0.2691	0.1512
Mercury	124327-05-31 15:05 G	47130714.02	47130714.13	47130714.24	0.2651	0.1497
Mercury	124331-11-24 10:31 G	47132351.81	47132351.94	47132352.06	0.2683	0.0386
Mercury	124344-11-26 06:26 G	47137102.72	47137102.77	47137102.82	0.2685	0.2396
Mercury	124347-05-26 22:17 G	47138014.41	47138014.43	47138014.45	0.2644	0.2597
Mercury	124360-05-28 22:31 G	47142765.31	47142765.44	47142765.57	0.2650	0.0214
Mercury	124364-11-21 17:43 G	47144403.13	47144403.24	47144403.35	0.2688	0.1334
Venus	124365-11-08 15:48 G	47144755.00	47144755.16	47144755.32	0.2703	0.0109
Mercury	124373-05-31 22:17 G	47147516.37	47147516.43	47147516.50	0.2644	0.2293
Mercury	124377-11-24 14:50 G	47149154.00	47149154.12	47149154.24	0.2693	0.0661
Mercury	124393-05-27 05:43 G	47154816.65	47154816.74	47154816.84	0.2642	0.1797
Mercury	124406-05-30 04:02 G	47159567.53	47159567.67	47159567.80	0.2638	0.0233
Mercury	124410-11-22 23:57 G	47161205.38	47161205.50	47161205.61	0.2698	0.0761
Mercury	124419-06-02 01:53 G	47164318.55	47164318.58	47164318.62	0.2642	0.2529
Mercury	124423-11-25 22:02 G	47165956.31	47165956.42	47165956.52	0.2689	0.1371
Mercury	124439-05-28 09:33 G	47171618.79	47171618.90	47171619.00	0.2637	0.1608
Mercury	124443-11-21 08:50 G	47173256.82	47173256.87	47173256.91	0.2696	0.2462
Mercury	124452-05-30 08:07 G	47176369.71	47176369.84	47176369.97	0.2647	0.0483
Mercury	124456-11-23 05:29 G	47178007.60	47178007.73	47178007.85	0.2684	0.0296
Mercury	124469-11-26 01:24 G	47182758.46	47182758.56	47182758.66	0.2686	0.1525
Venus	124471-05-15 02:21 G	47183293.44	47183293.60	47183293.76	0.2624	0.0863
Mercury	124485-05-28 15:48 G	47188421.04	47188421.16	47188421.29	0.2649	0.0998
Mercury	124489-11-21 12:12 G	47190058.95	47190059.01	47190059.08	0.2690	0.2291
Mercury	124498-05-31 15:48 G	47193172.04	47193172.16	47193172.28	0.2642	0.1268
Mercury	124502-11-25 09:48 G	47194809.78	47194809.91	47194810.03	0.2695	0.0045
Mercury	124515-11-28 08:07 G	47199560.77	47199560.84	47199560.91	0.2694	0.2209

Mercury	124531-05-30 21:05 G	47205223.25	47205223.38	47205223.51	0.2636	0.0579
Mercury	124535-11-23 18:55 G	47206861.19	47206861.29	47206861.39	0.2699	0.1601
Mercury	124544-06-01 19:09 G	47209974.19	47209974.30	47209974.41	0.2644	0.1422
Mercury	124548-11-25 16:31 G	47211612.07	47211612.19	47211612.31	0.2688	0.0675
Mercury	124561-11-28 12:26 G	47216362.97	47216363.02	47216363.06	0.2682	0.2465
Mercury	124564-05-28 02:50 G	47217274.62	47217274.62	47217274.63	0.2639	0.2632
Mercury	124577-05-31 02:07 G	47222025.46	47222025.59	47222025.72	0.2648	0.0200
Mercury	124581-11-23 23:43 G	47223663.37	47223663.49	47223663.60	0.2685	0.1210
Mercury	124590-06-03 02:36 G	47226776.55	47226776.61	47226776.68	0.2649	0.2236
Mercury	124594-11-26 20:07 G	47228414.22	47228414.34	47228414.46	0.2692	0.0818
Venus	124608-11-11 05:14 G	47233511.57	47233511.72	47233511.87	0.2702	0.0657
Mercury	124610-05-30 10:02 G	47234076.83	47234076.92	47234077.01	0.2645	0.1885
Mercury	124623-06-02 09:04 G	47238827.75	47238827.88	47238828.01	0.2638	0.0480
Mercury	124627-11-26 05:00 G	47240465.59	47240465.71	47240465.82	0.2699	0.0765
Mercury	124636-06-04 06:26 G	47243578.73	47243578.77	47243578.82	0.2640	0.2454
Mercury	124640-11-28 03:04 G	47245216.53	47245216.63	47245216.73	0.2693	0.1508
Mercury	124656-05-30 14:21 G	47250878.99	47250879.10	47250879.21	0.2634	0.1581
Mercury	124660-11-23 13:38 G	47252517.02	47252517.07	47252517.13	0.2697	0.2417
Mercury	124669-06-02 12:40 G	47255629.90	47255630.03	47255630.16	0.2646	0.0655
Mercury	124673-11-26 11:00 G	47257267.84	47257267.96	47257268.09	0.2687	0.0150
Mercury	124686-11-29 06:55 G	47262018.70	47262018.79	47262018.89	0.2684	0.1679
Mercury	124702-06-01 20:21 G	47267681.23	47267681.35	47267681.47	0.2647	0.1032
Mercury	124706-11-25 17:57 G	47269319.17	47269319.25	47269319.32	0.2688	0.2165
Venus	124714-05-18 08:50 G	47272049.74	47272049.87	47272050.00	0.2633	0.1589
Mercury	124715-06-04 20:21 G	47272432.23	47272432.35	47272432.46	0.2645	0.1406
Mercury	124719-11-28 14:50 G	47274070.00	47274070.12	47274070.24	0.2695	0.0068
Venus	124722-05-15 22:16 G	47274969.40	47274969.43	47274969.45	0.2624	0.2592
Mercury	124732-11-30 13:09 G	47278820.99	47278821.05	47278821.12	0.2695	0.2281
Mercury	124748-06-02 02:21 G	47284483.47	47284483.60	47284483.73	0.2636	0.0444
Mercury	124752-11-25 23:43 G	47286121.40	47286121.49	47286121.59	0.2701	0.1636

Mercury	124761-06-04 23:43 G	47289234.38	47289234.49	47289234.60	0.2640	0.1552
Mercury	124765-11-28 22:02 G	47290872.30	47290872.42	47290872.54	0.2691	0.0814
Mercury	124778-12-01 18:12 G	47295623.25	47295623.26	47295623.28	0.2682	0.2641
Mercury	124781-05-31 07:52 G	47296534.79	47296534.83	47296534.87	0.2634	0.2500
Mercury	124794-06-03 06:26 G	47301285.64	47301285.77	47301285.90	0.2646	0.0190
Mercury	124798-11-27 05:14 G	47302923.61	47302923.72	47302923.84	0.2687	0.1139
Mercury	124807-06-06 06:55 G	47306036.72	47306036.79	47306036.85	0.2649	0.2275
Mercury	124811-11-30 01:24 G	47307674.45	47307674.56	47307674.68	0.2687	0.0981
Mercury	124827-06-01 14:36 G	47313337.02	47313337.11	47313337.20	0.2646	0.1895
Mercury	124840-06-03 13:38 G	47318087.94	47318088.07	47318088.20	0.2641	0.0578
Mercury	124844-11-27 09:33 G	47319725.78	47319725.90	47319726.02	0.2698	0.0870
Venus	124851-11-12 22:31 G	47322267.29	47322267.44	47322267.59	0.2711	0.0271
Mercury	124853-06-06 11:43 G	47322838.97	47322838.99	47322839.01	0.2638	0.2598
Mercury	124857-11-30 08:21 G	47324476.75	47324476.85	47324476.94	0.2696	0.1666
Venus	124859-11-10 20:50 G	47325187.37	47325187.37	47325187.38	0.2714	0.2710
Mercury	124873-06-01 19:38 G	47330139.21	47330139.32	47330139.43	0.2634	0.1468
Mercury	124877-11-25 18:26 G	47331777.21	47331777.27	47331777.34	0.2702	0.2307
Mercury	124886-06-04 17:14 G	47334890.09	47334890.22	47334890.34	0.2640	0.0747
Mercury	124890-11-28 16:31 G	47336528.07	47336528.19	47336528.32	0.2690	0.0147
Mercury	124903-12-02 12:40 G	47341278.94	47341279.03	47341279.11	0.2684	0.1931
Mercury	124919-06-04 00:26 G	47346941.40	47346941.52	47346941.64	0.2646	0.1139
Mercury	124923-11-27 23:14 G	47348579.39	47348579.47	47348579.56	0.2688	0.1931
Mercury	124932-06-06 00:40 G	47351692.42	47351692.53	47351692.64	0.2646	0.1540
Mercury	124936-11-29 20:07 G	47353330.21	47353330.34	47353330.46	0.2691	0.0044
Mercury	124949-12-02 17:57 G	47358081.20	47358081.25	47358081.31	0.2697	0.2390
Mercury	124952-06-01 08:36 G	47358992.83	47358992.86	47358992.90	0.2644	0.2530
Venus	124957-05-18 21:33 G	47360805.24	47360805.40	47360805.56	0.2628	0.0095
Mercury	124965-06-04 07:24 G	47363743.67	47363743.81	47363743.94	0.2636	0.0466
Mercury	124969-11-28 04:31 G	47365381.59	47365381.69	47365381.79	0.2700	0.1570
Mercury	124978-06-07 04:45 G	47368494.60	47368494.70	47368494.80	0.2637	0.1766

Mercury 124982-12-01 03:04 G 47370132.52 47370132.63 47370132.75 0.2695 0.0796
Mercury 124998-06-02 12:55 G 47375794.98 47375795.04 47375795.11 0.2633 0.2251